Nokia Care Academy

Service Manual for L1 and L2

Nokia Lumia 625

RM-941, RM-942, RM-943

Key features

- 4.7" LCD Display
- 2G/3G/4G connectivity
- Bluetooth 4.0 with Bluetooth LE
- 5 Mpix main camera and 0.3 Mpix front camera

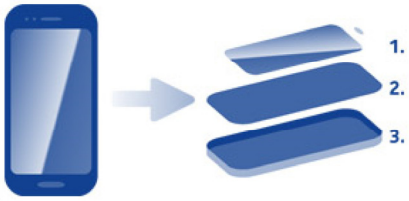
Version 1.0

Check the repair policy before performing any mechanical repair on Service Level 1&2!

Exploded view

More

Disassembly steps

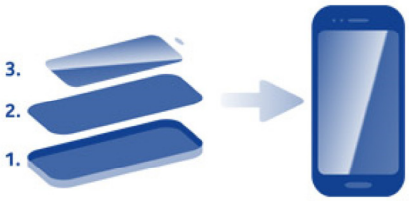


More

Disassembly video

More

Assembly steps

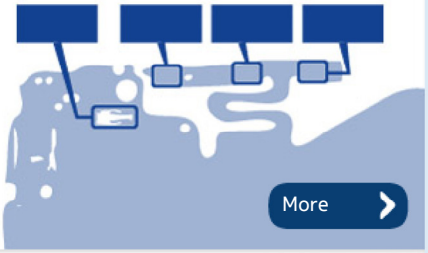


More

Assembly video

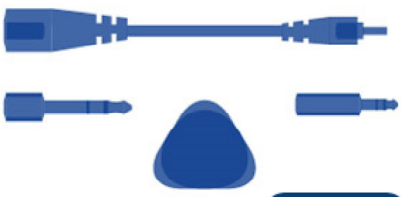
More

Solder components



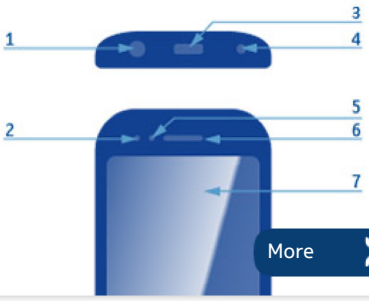
More

Service devices



More

Product controls and interfaces



More

Service concept

More

Phone reset

More

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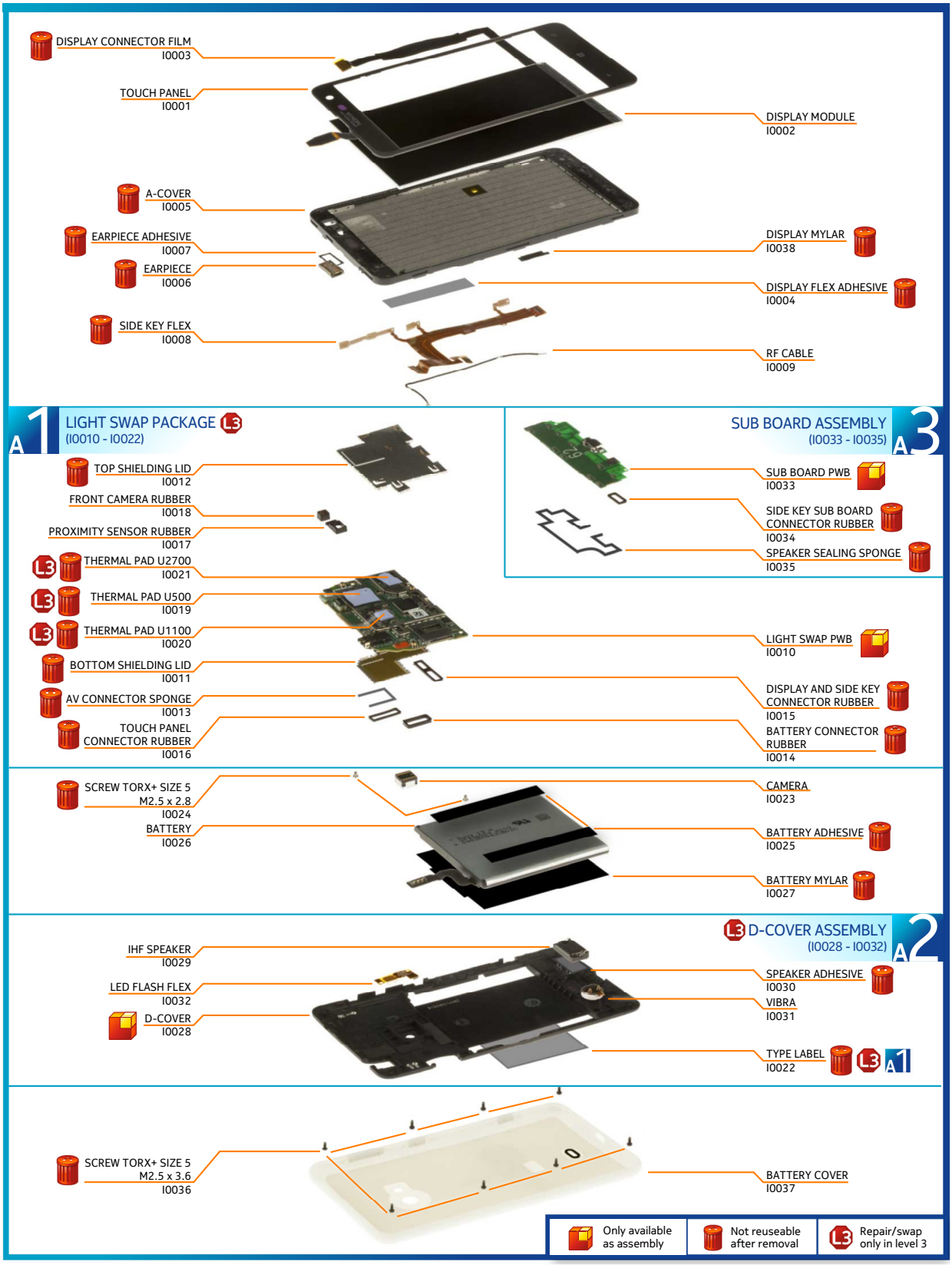
Exploded view



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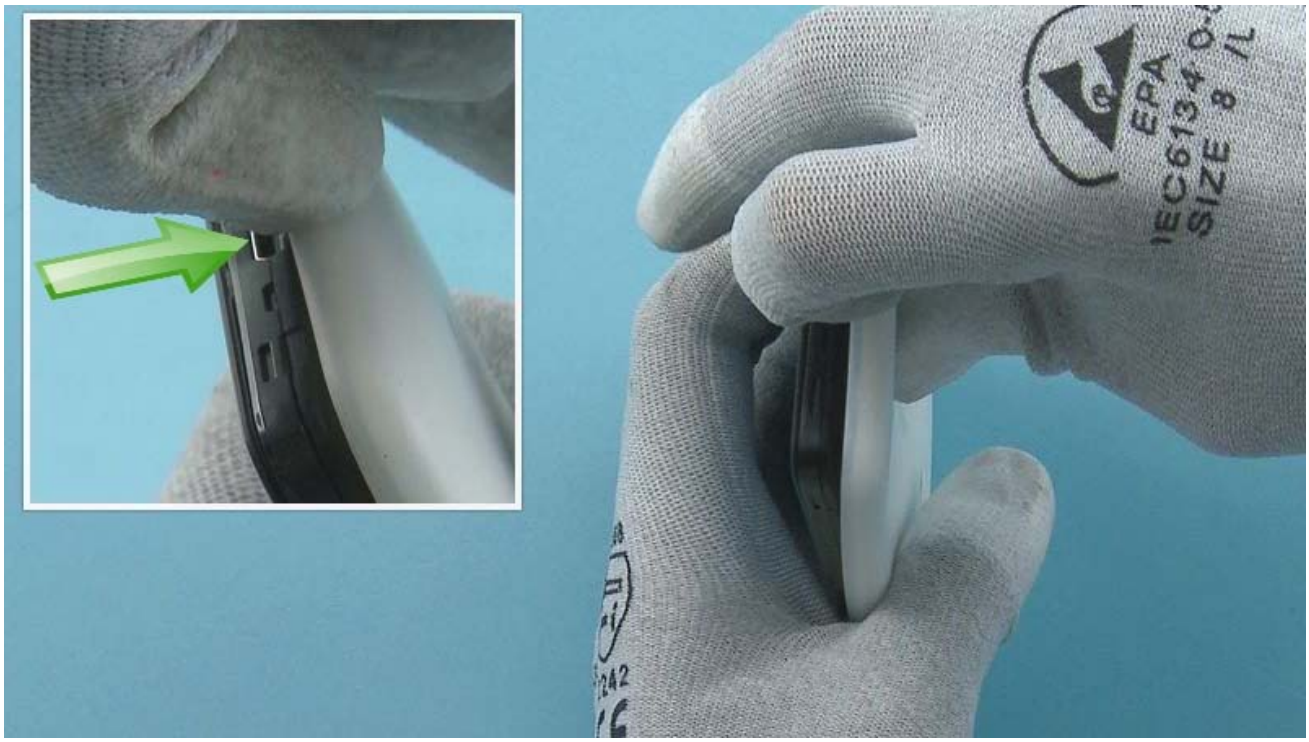
1) For disassembling you need the Nokia Standard Tool kit version 2. You will also need the RF connector disassembly/assembly tool SS-231 or the SS-298 and the camera removal tool SS-305.

2) Protect the TOUCH PANEL with protective film.



3) Release the BATTERY COVER from the bottom end by pushing from the USB connector hole.

4) Remove the BATTERY COVER.

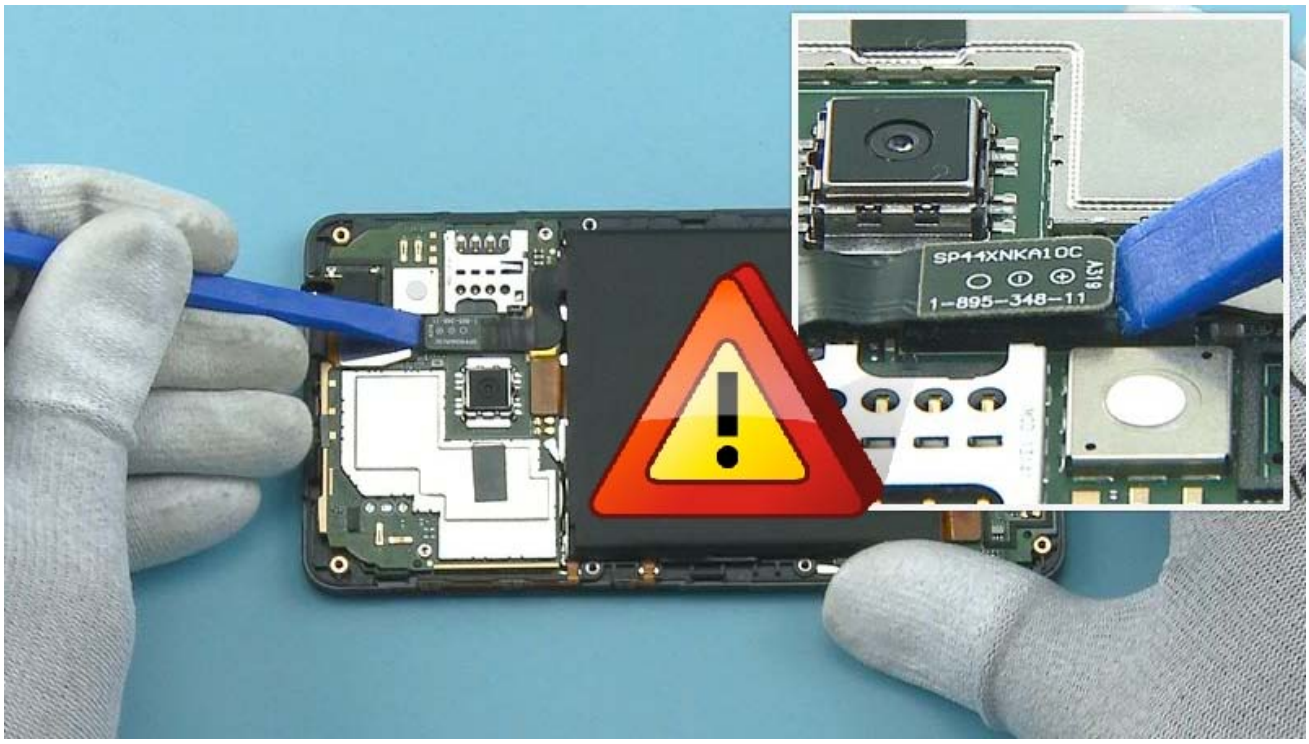
5) Unscrew the eight Torx+ size 5 screws in the order shown. Do not use the screws again. Discard them.

6) To remove the D-COVER, first release the two shown clips on the top of the device. Use the SRT-6 to push up the D-COVER from the shown place.

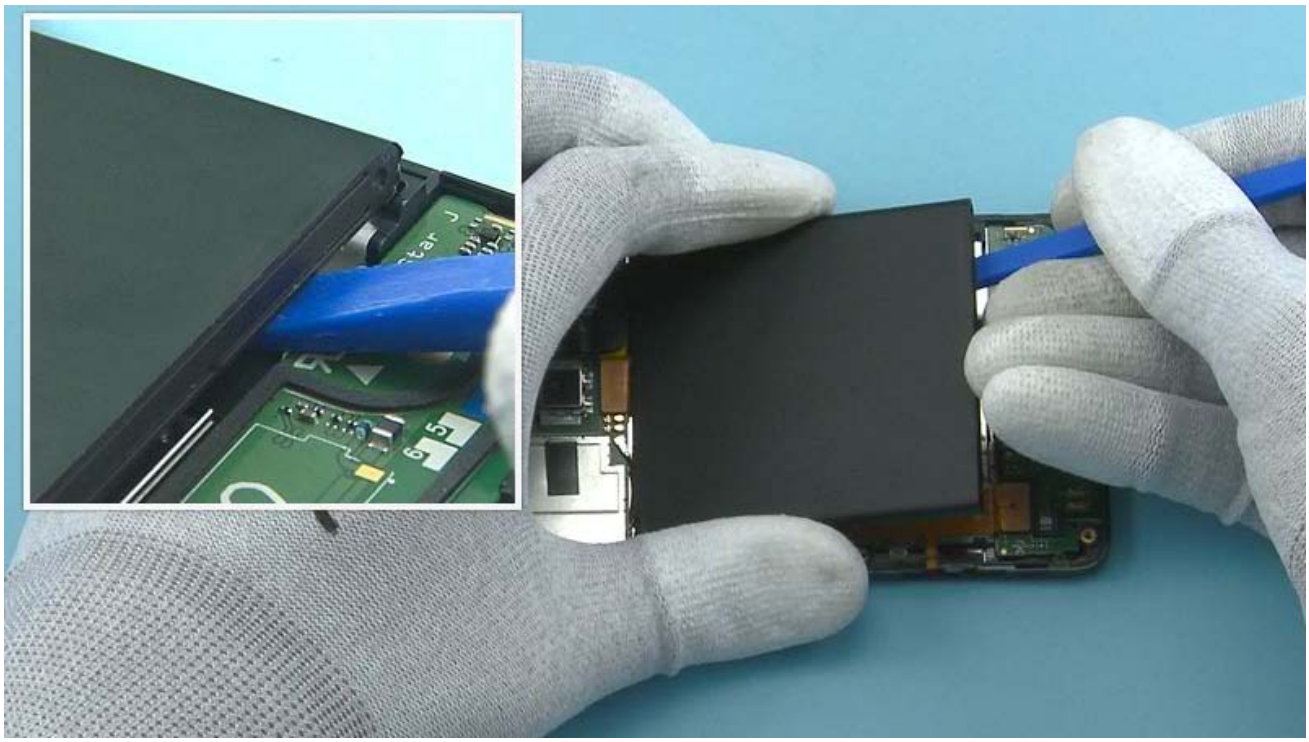
7) Then release the three shown clips from the right side of the device with the SRT-6.

8) Then release the two shown clips from the bottom of the device.

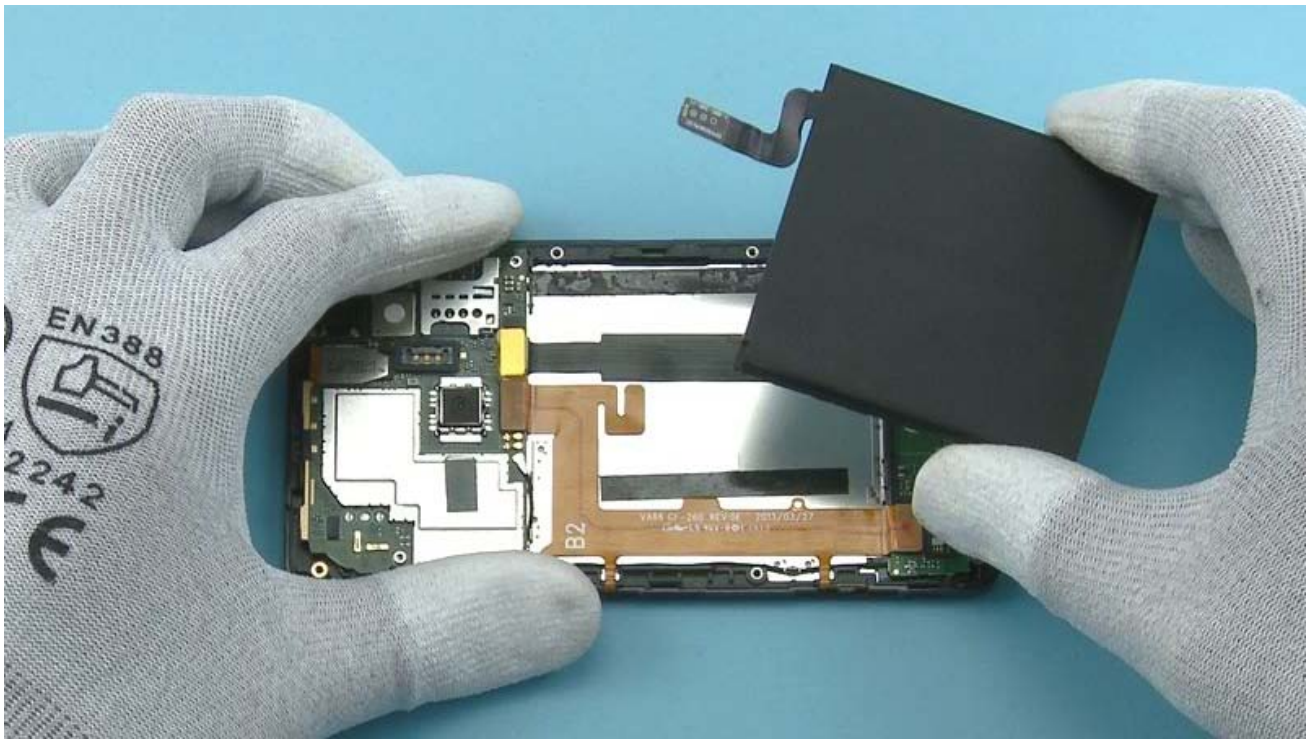
9) Lift up and remove the D-COVER.



10) Open the BATTERY connector with the SS-93. Be careful not to damage the connector or any components nearby.



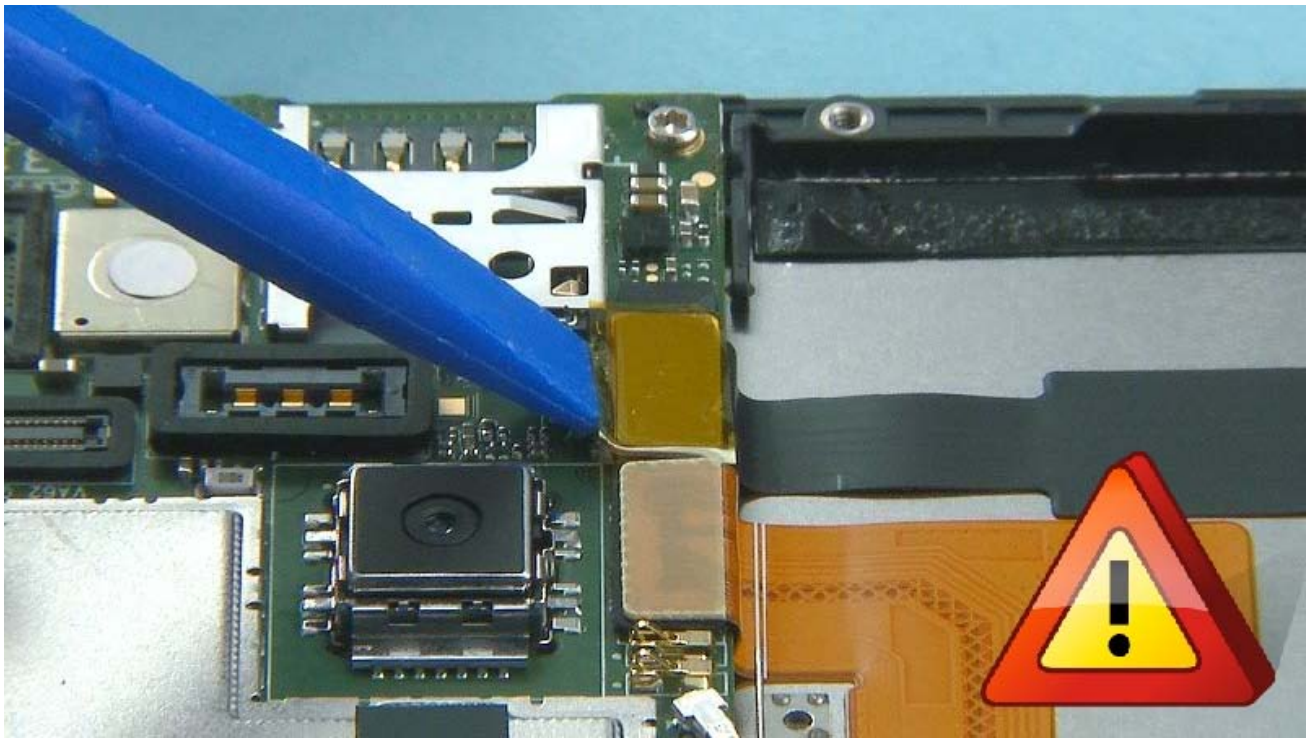
11) Release the adhesive holding the BATTERY from the bottom with the SS-93.



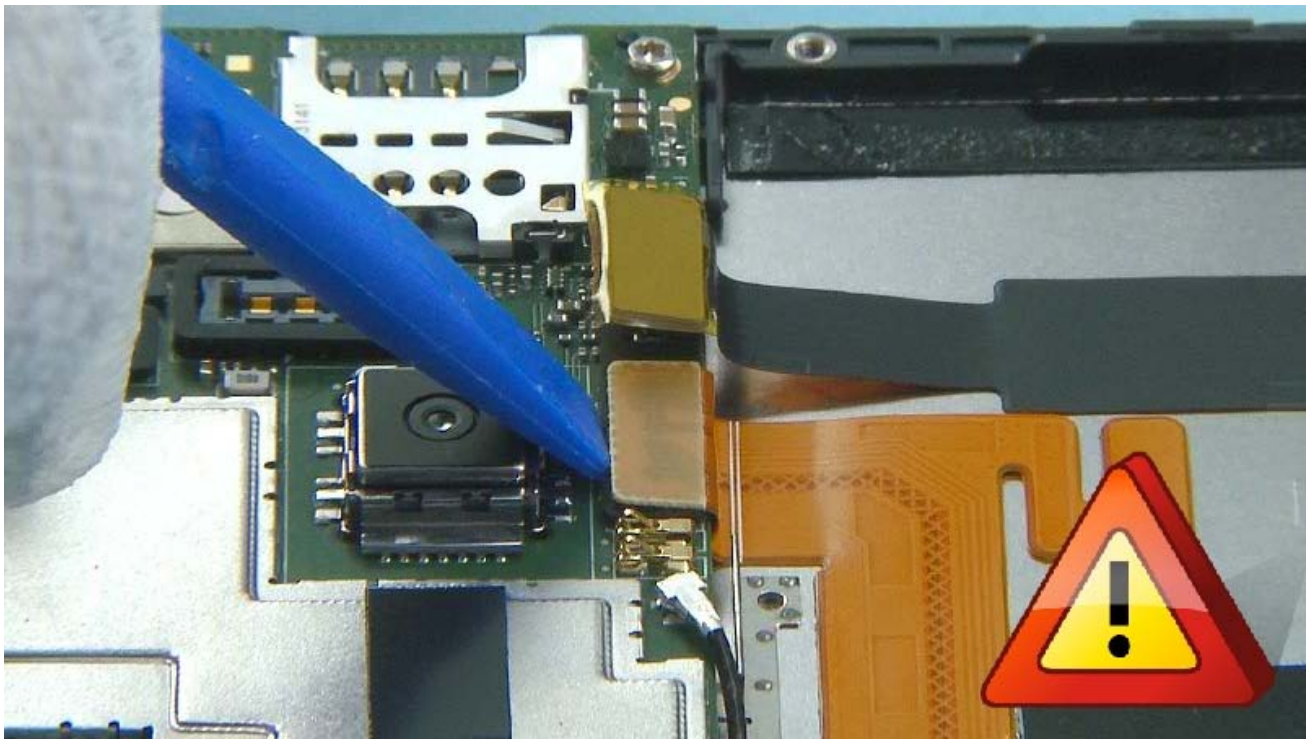
12) Remove the BATTERY.

13) Peel off the BATTERY MYLAR. Do not use it again. Discard it.

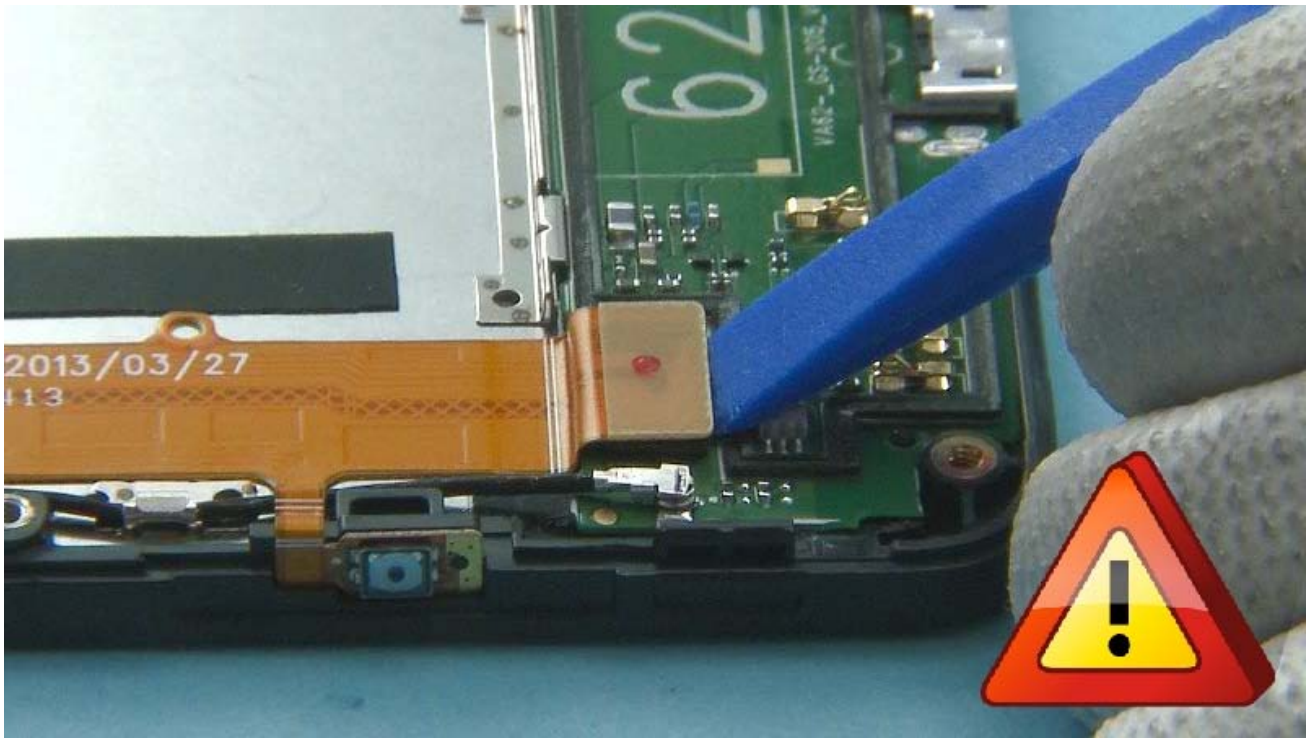
14) Open the TOUCH PANEL connector with the SS-93. Be careful not to damage the connector or any components nearby.



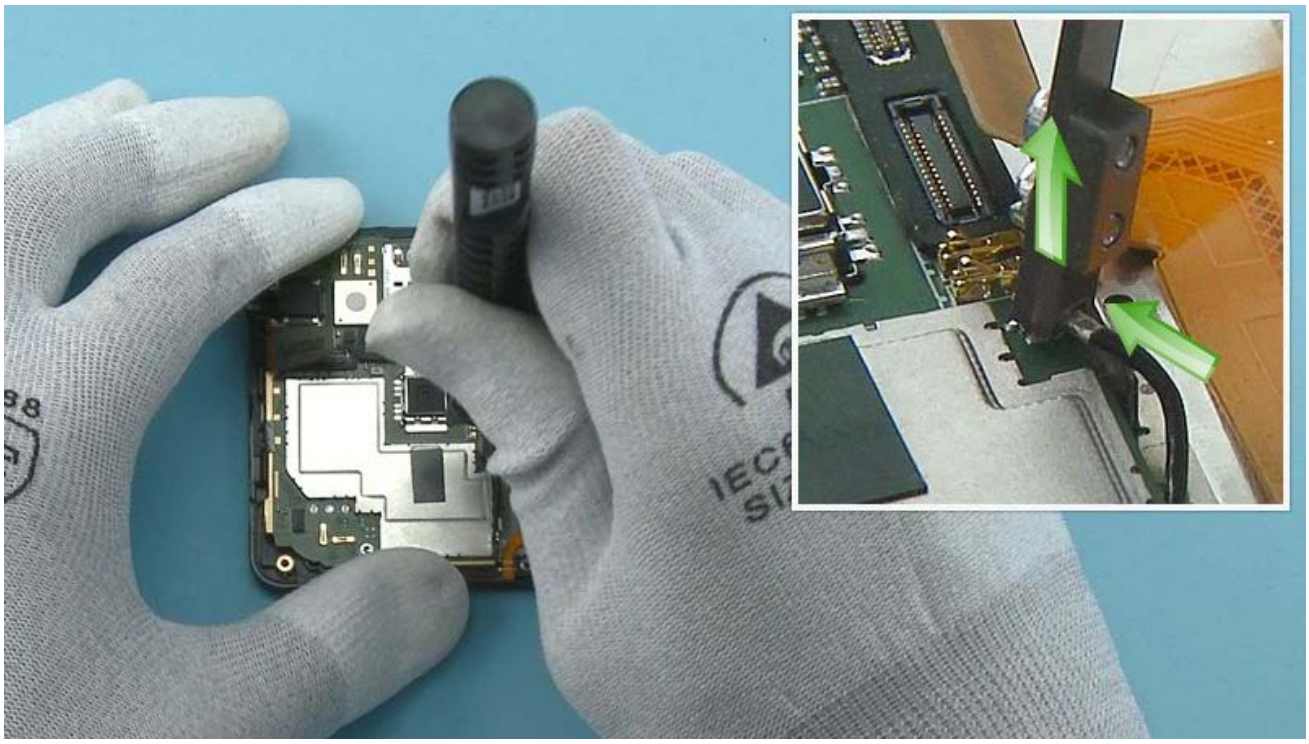
15) Open the DISPLAY connector.



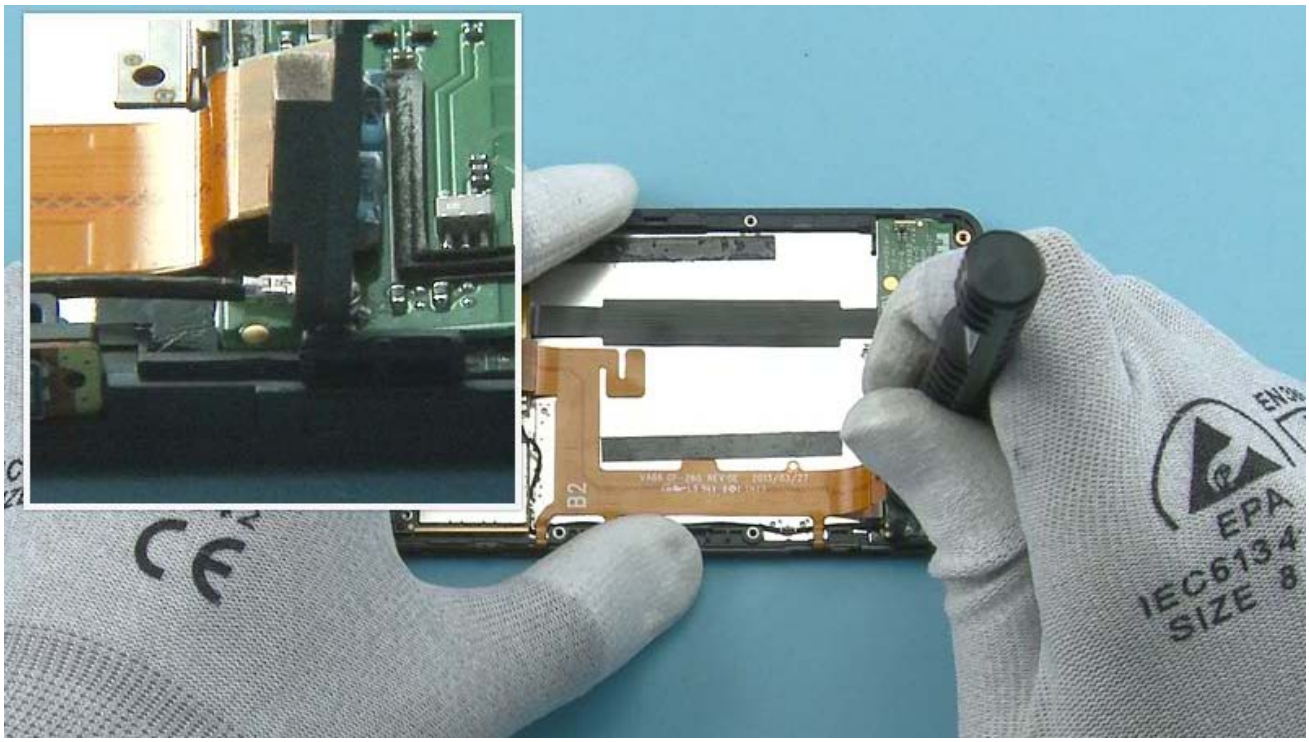
16) Open the SIDE KEY FLEX connector.



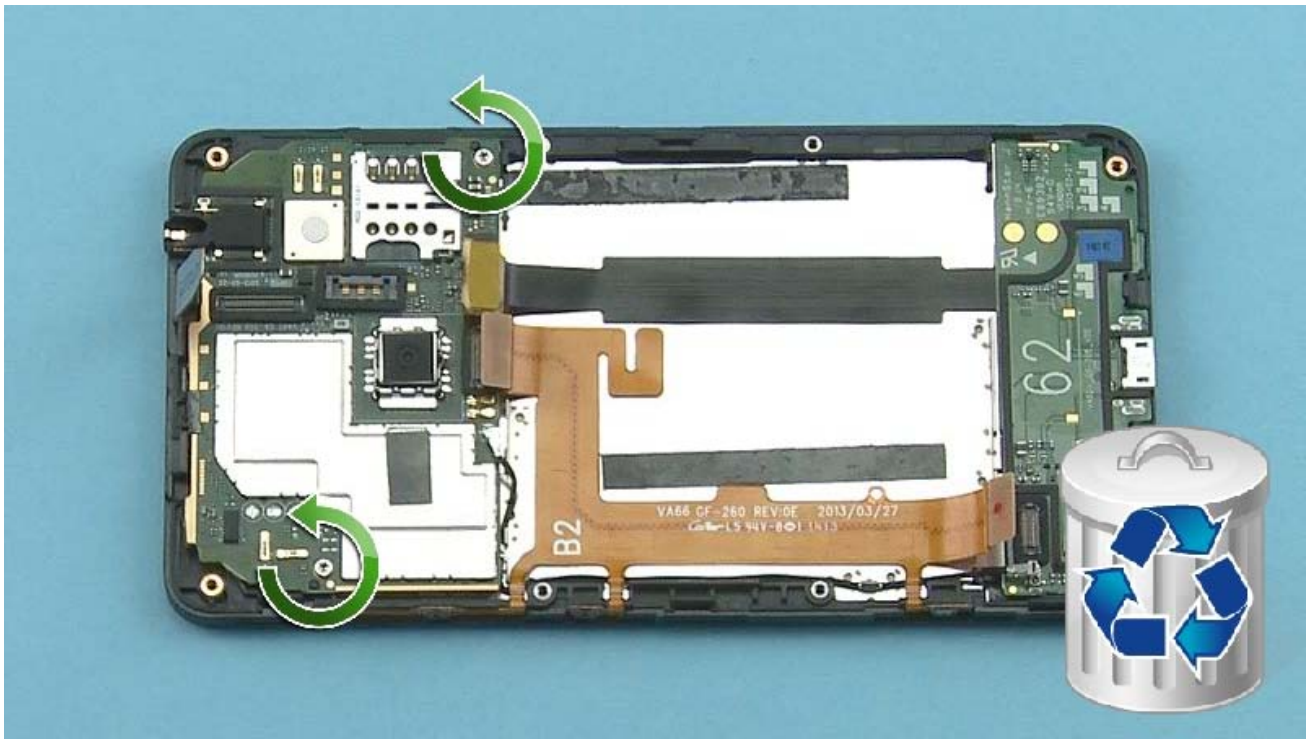
17) Open the SUB BOARD SIDE KEY FLEX connector.



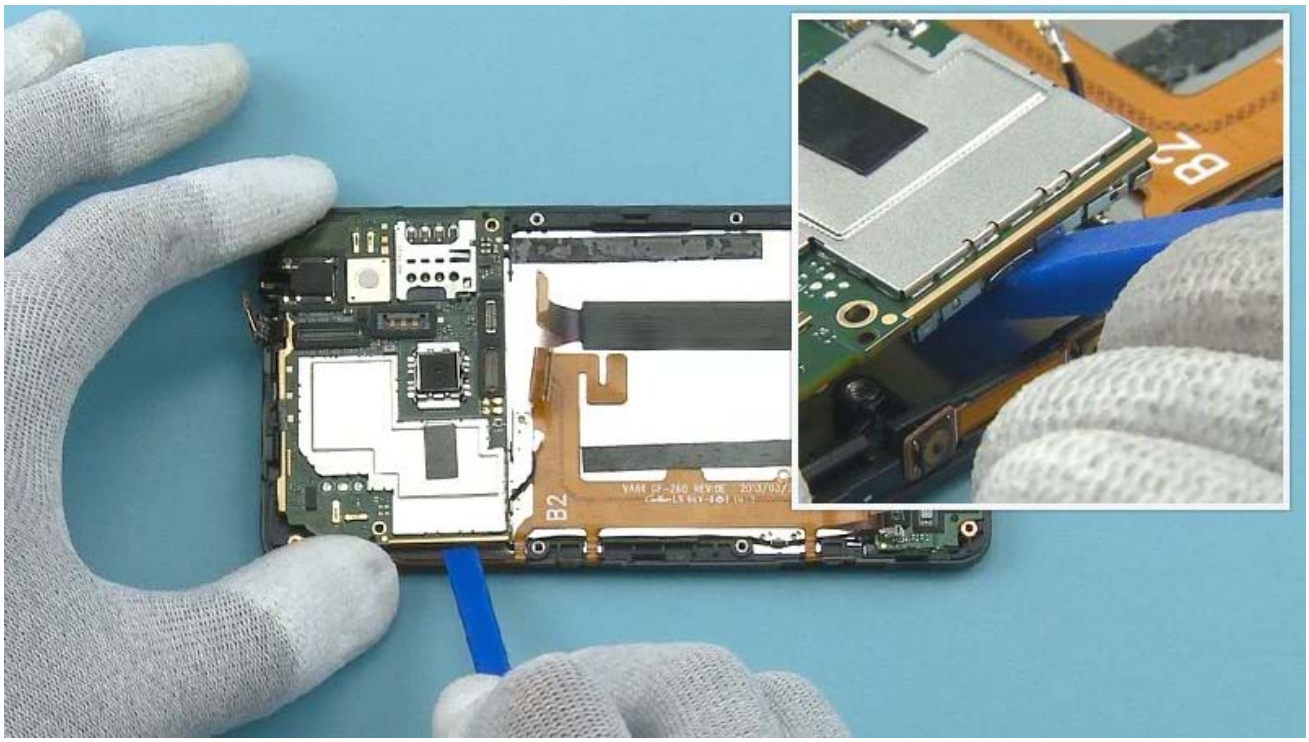
18) Release the RF-CABLE connector from the main ENGINE BOARD with the SS-231. Lock the SS-231 to the top of the connector as shown and lift it up carefully. Note that the SS-298 can also be used to disconnect the RF CABLE.



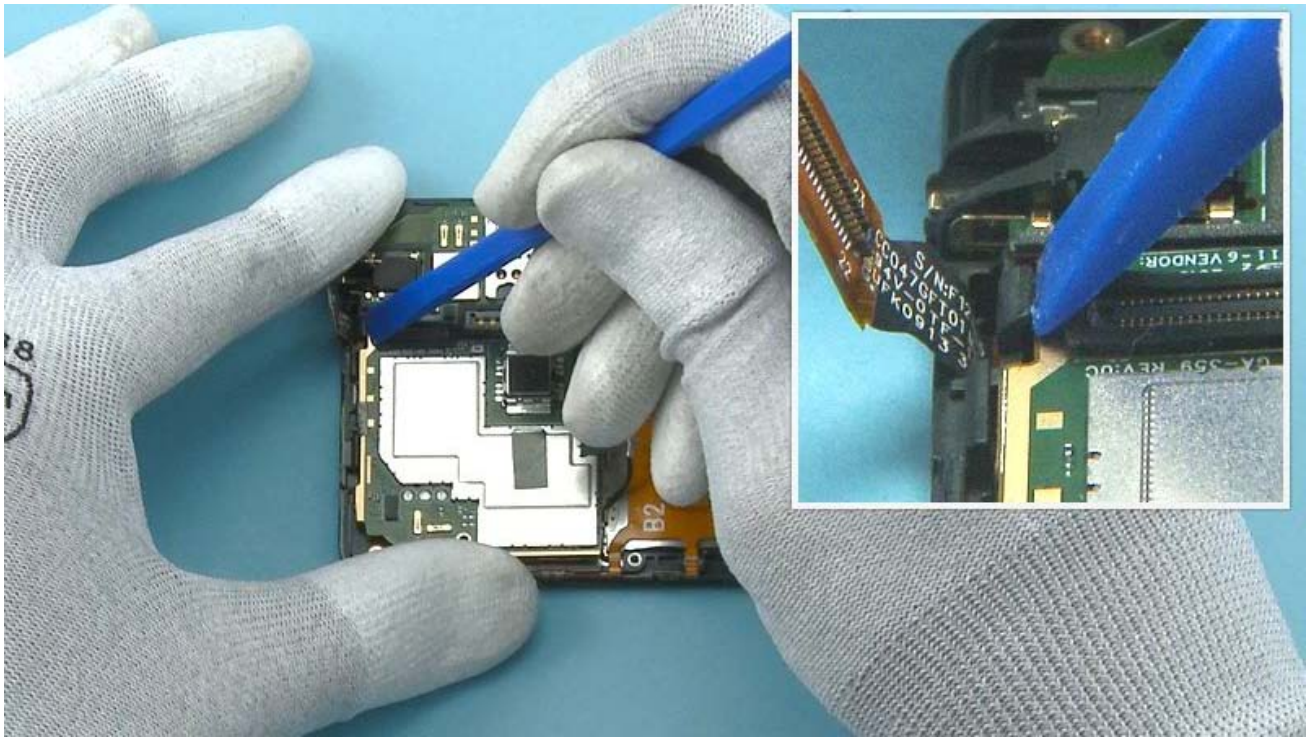
19) Release the RF CABLE connector also from the SUB BOARD side.



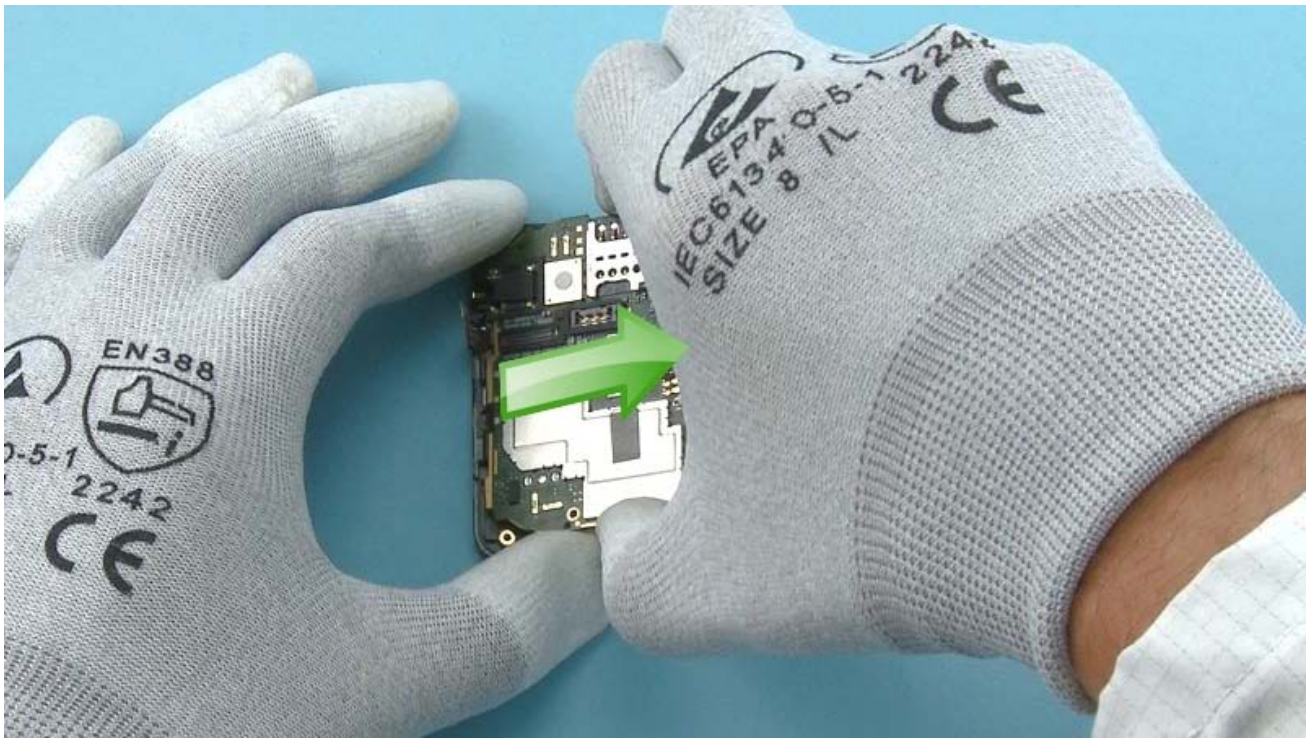
20) Unscrew the two Torx+ size 5 screws. Do not use the screws again. Discard them.



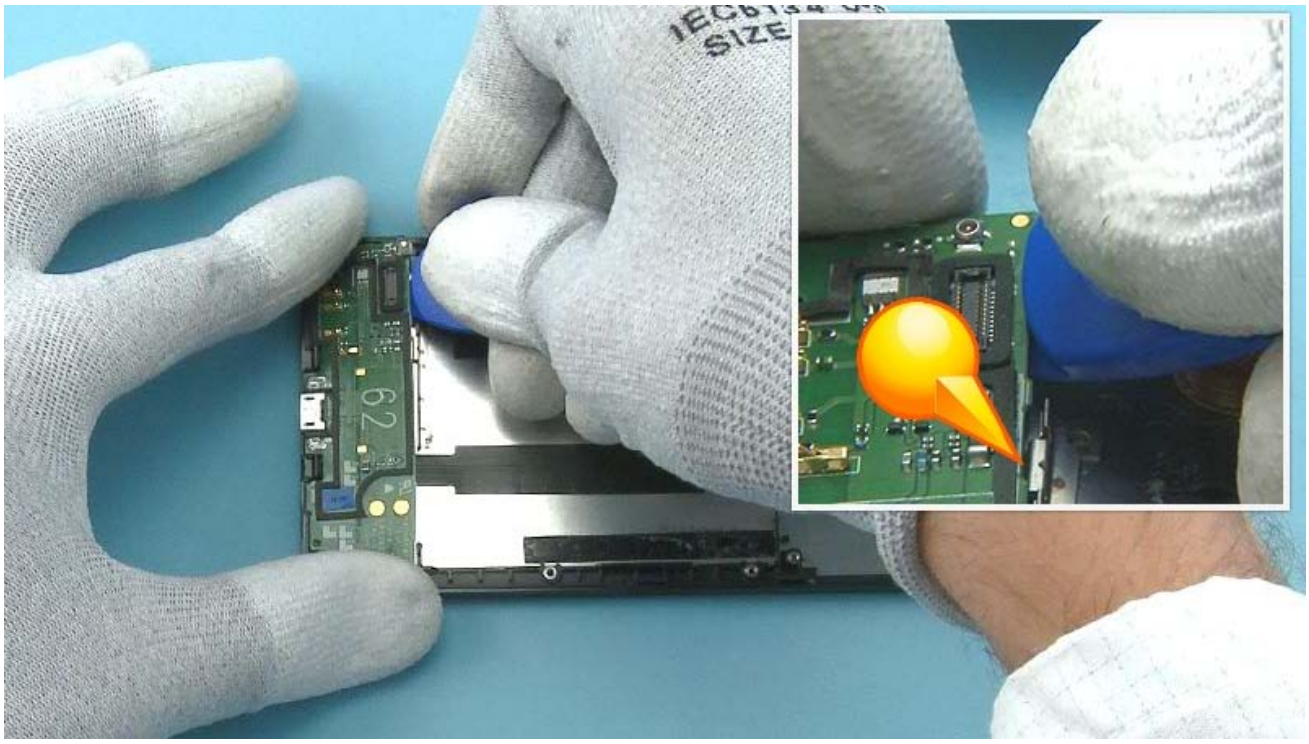
21) To remove the main ENGINE BOARD, first release the adhesive holding it from the shown side with the SS-93.



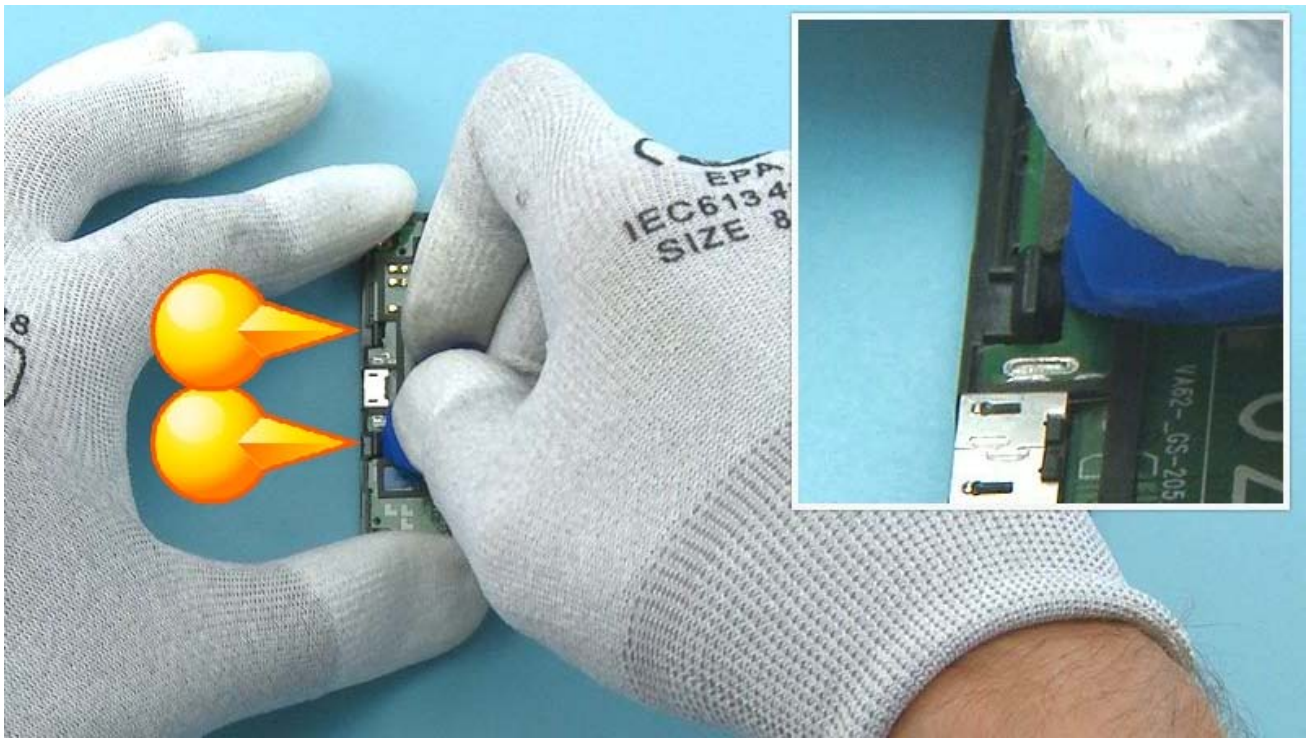
22) Then push with SS-93 to release the clip located by the TOUCH PANEL connector.



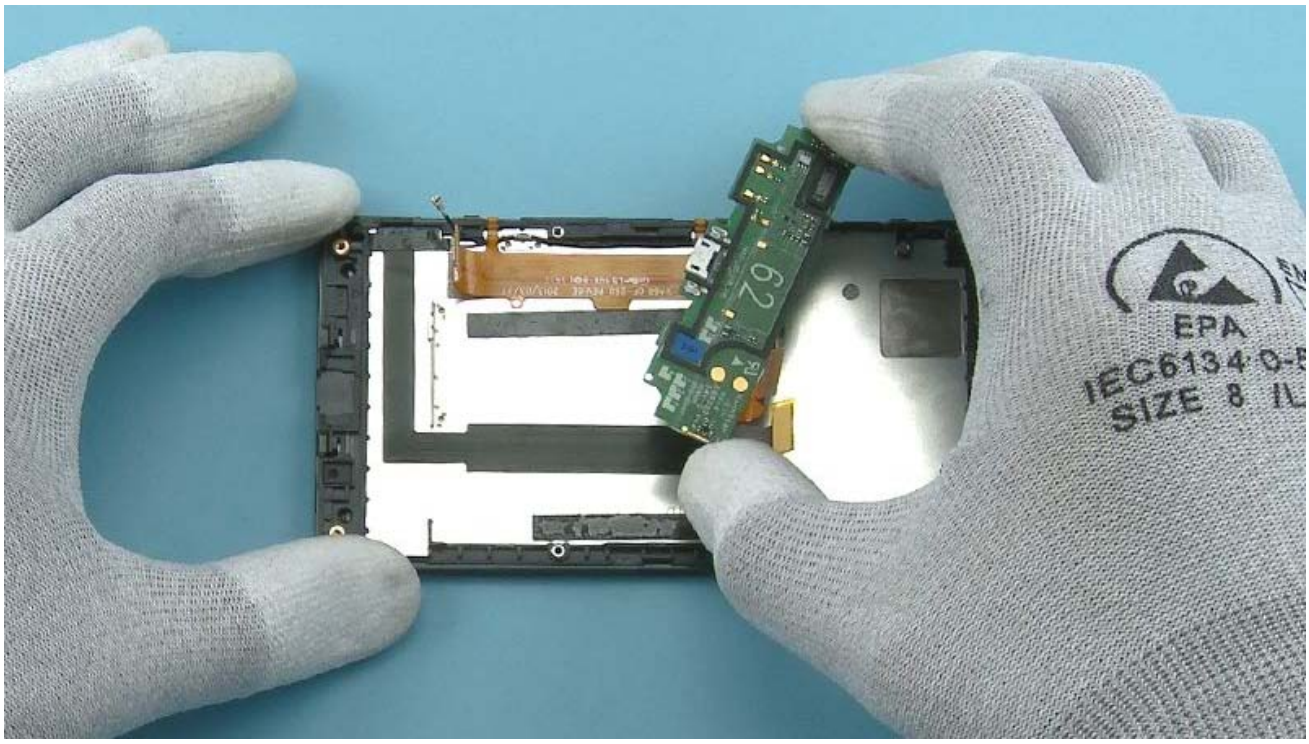
23) Lift up the ENGINE BOARD from the bottom end and remove it.



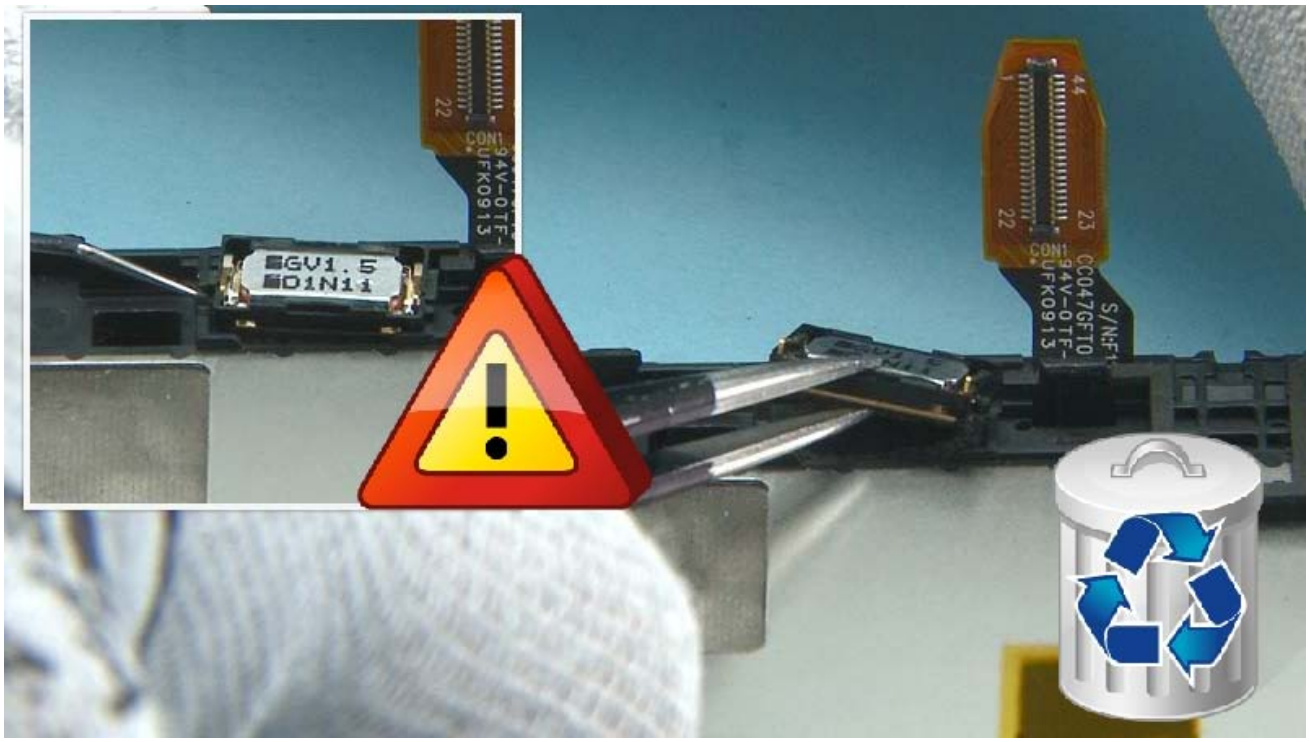
24) To remove the SUB BOARD, first release the shown clip with the SRT-6 from the shown place.



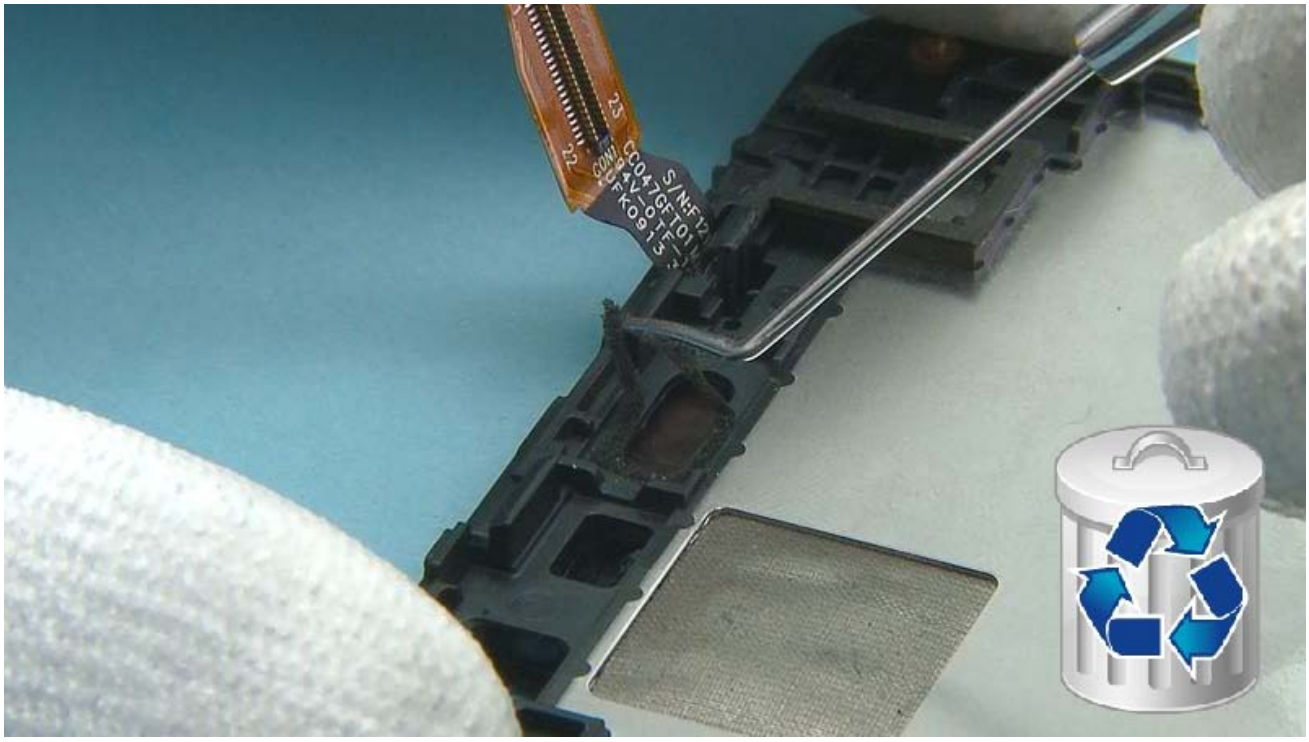
25) Then release the two clips located on both sides of the USB connector.



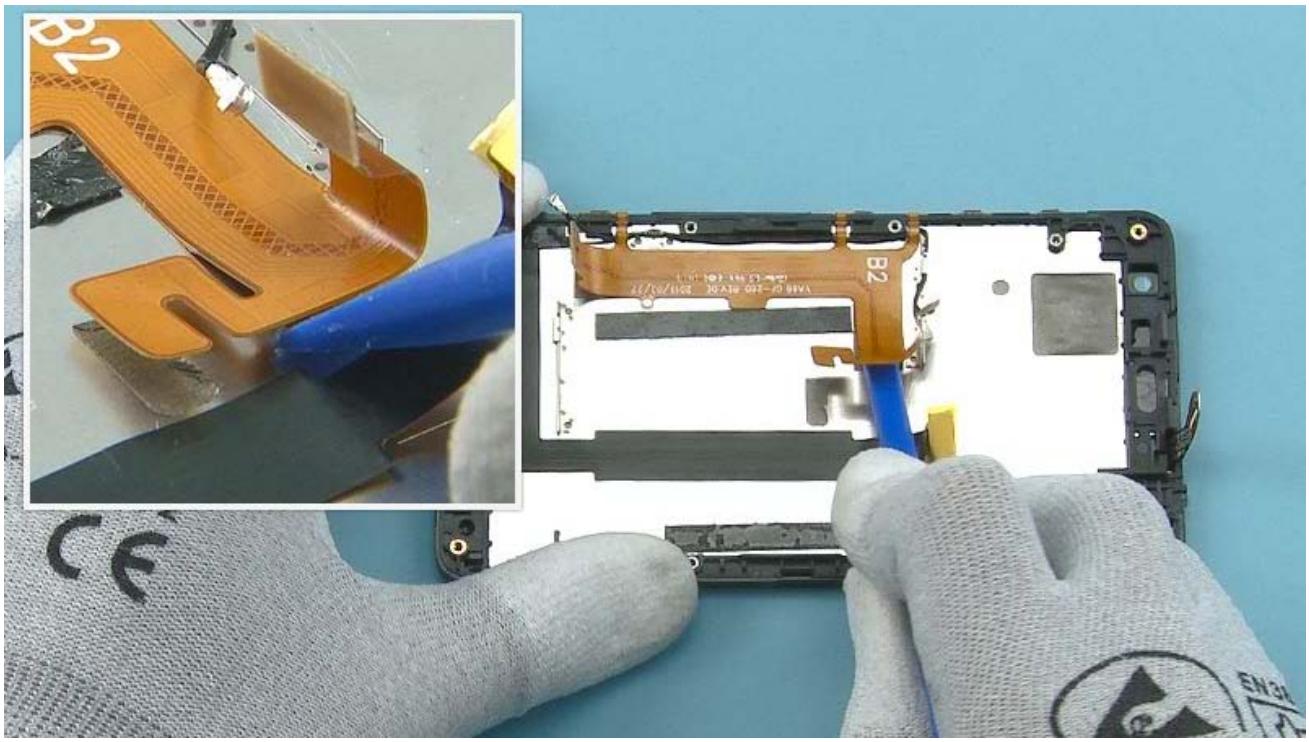
26) Lift up and remove the SUB BOARD.



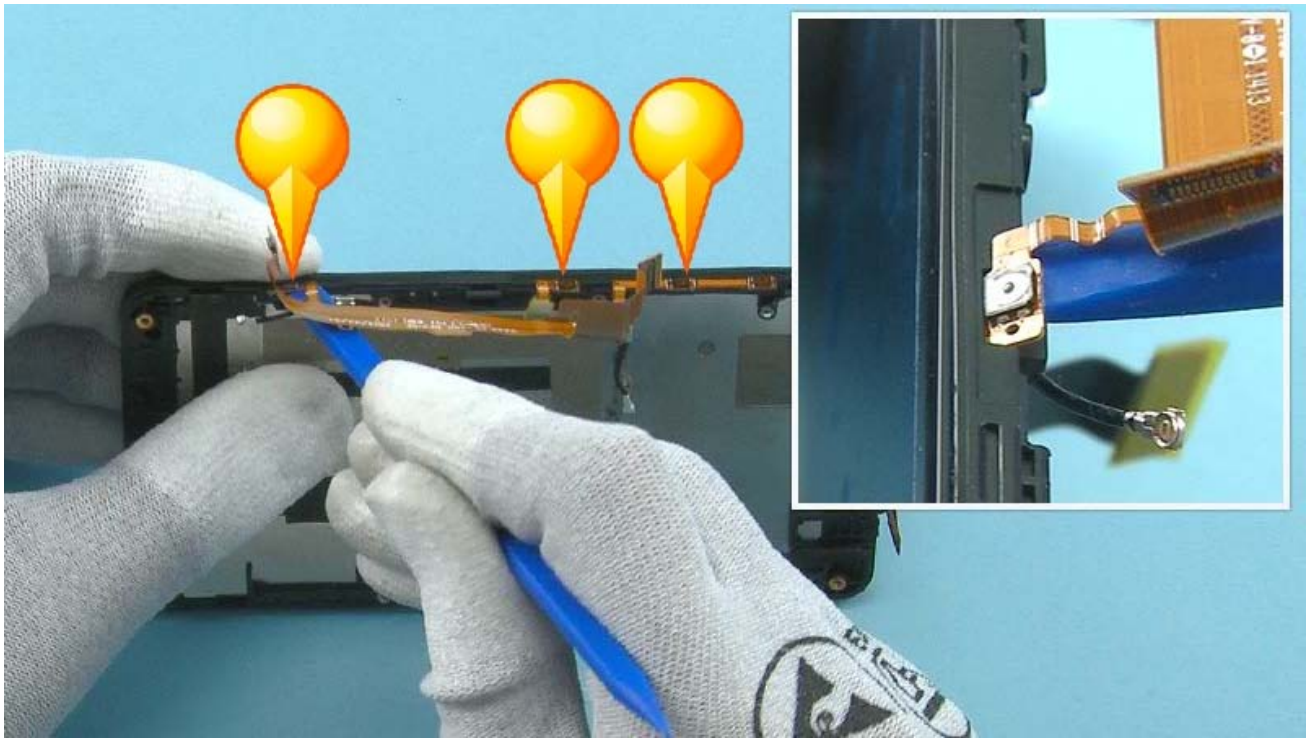
27) Release the EARPIECE with the dental tool. Be careful not to injure yourself with the sharp end of the dental tool. Remove the EARPIECE with tweezers. Do not use it again. Discard it.



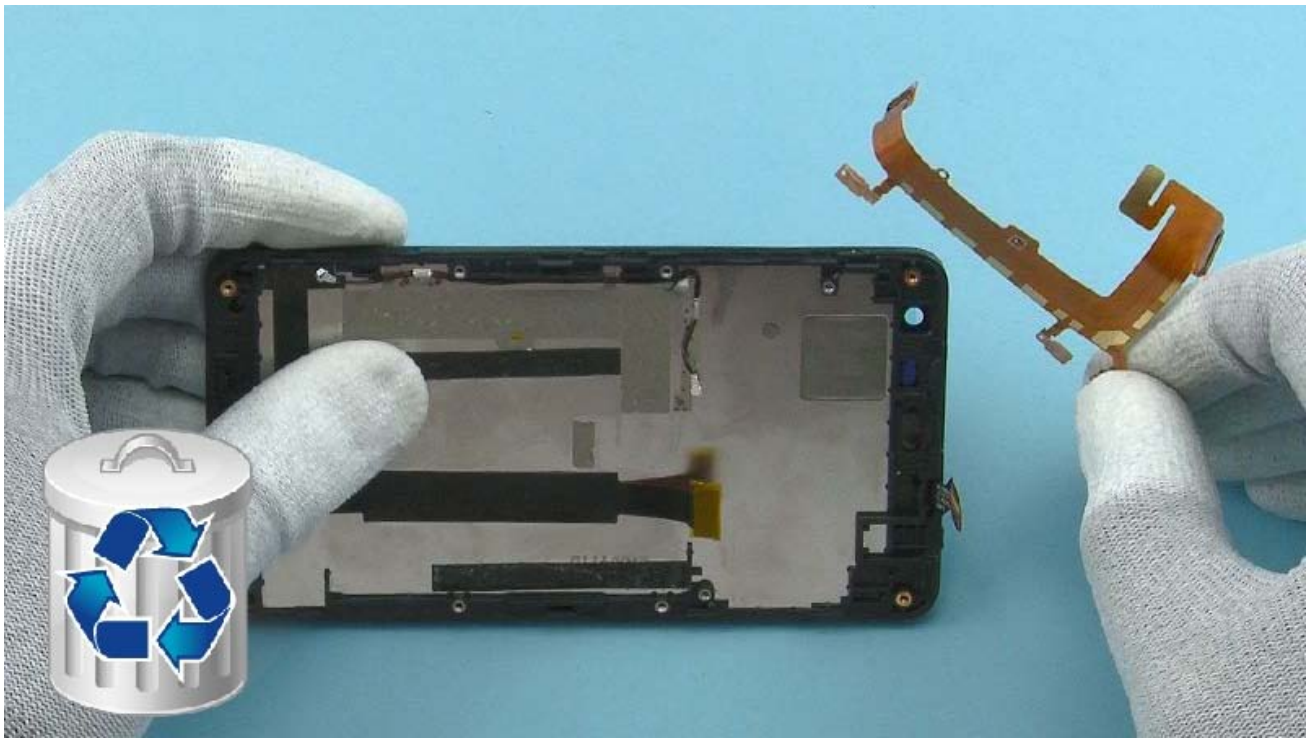
28) Remove and discard the EARPIECE ADHESIVE with the dental tool.



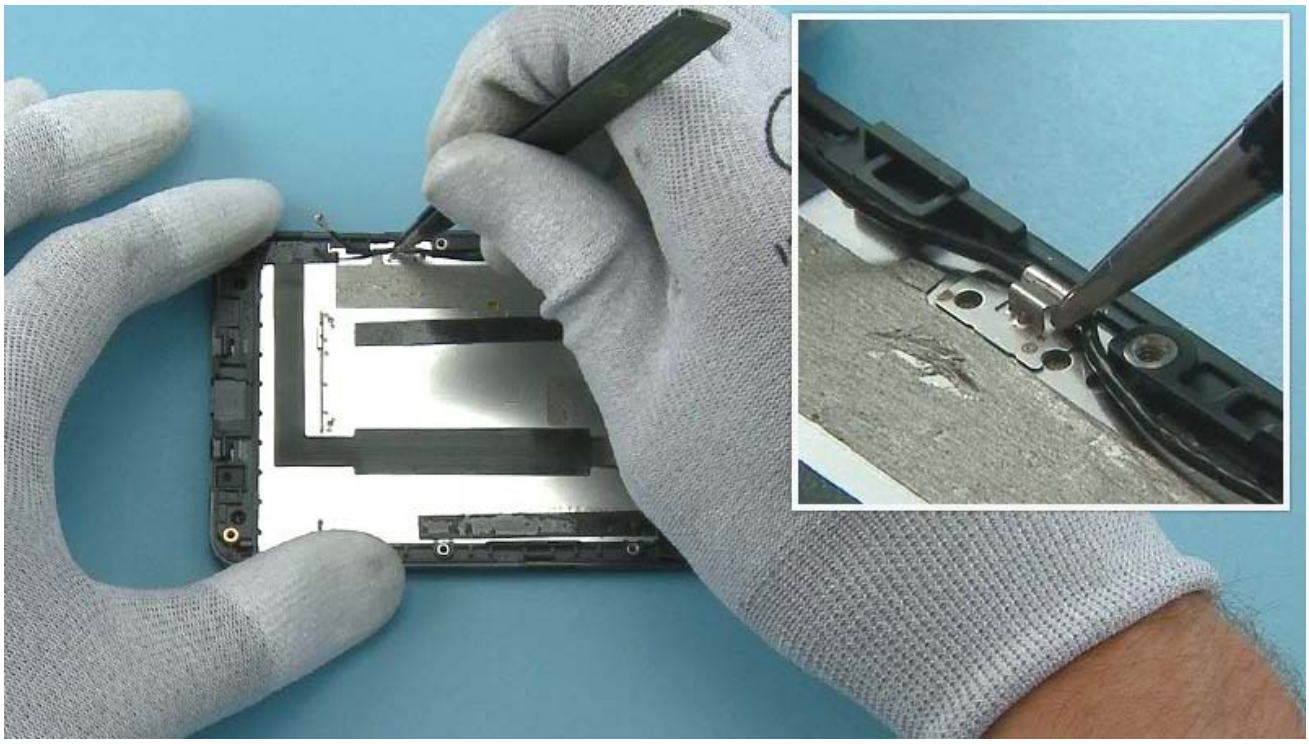
29) Peel off the SIDE KEY FLEX from the A-COVER with the SS-93.



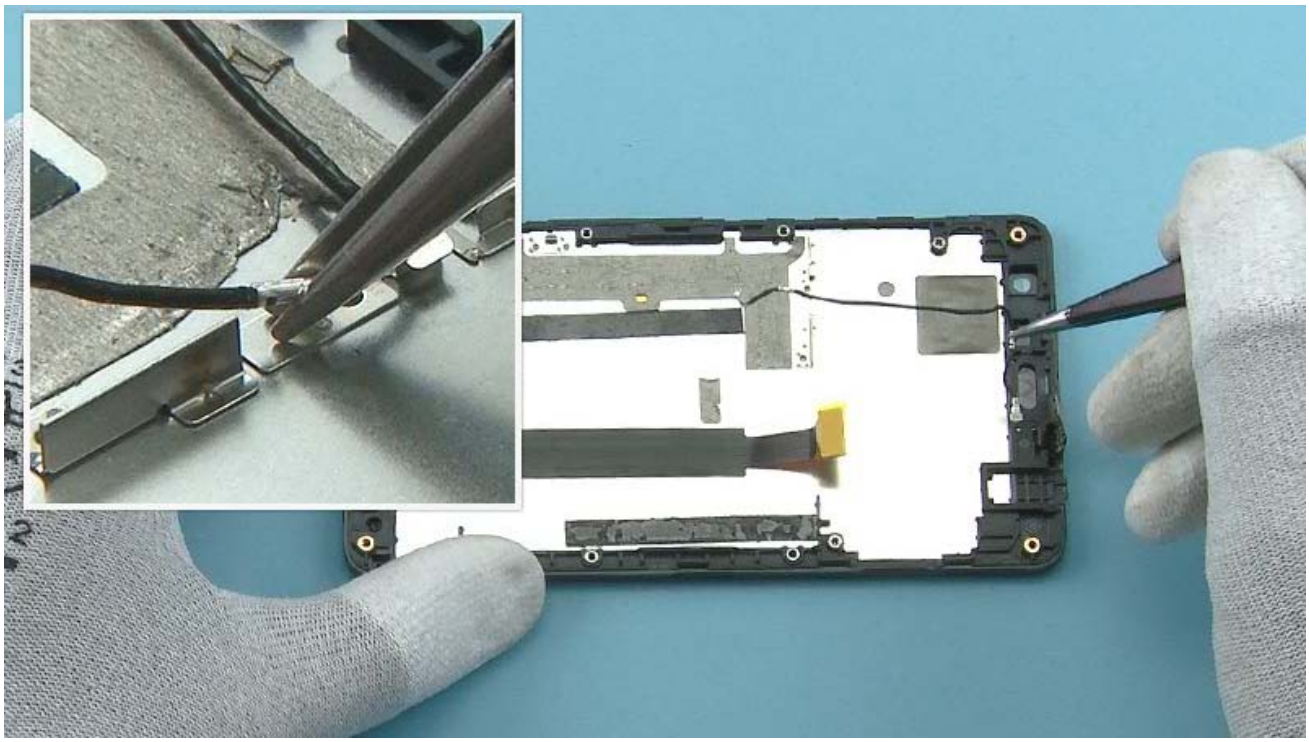
30) Then release the SIDE KEYS from the side of the A-COVER.



31) Remove the SIDE KEY FLEX. Do not use it again. Discard it.



32) Remove the RF CABLE by first releasing it from the two metal holders on the A-COVER.



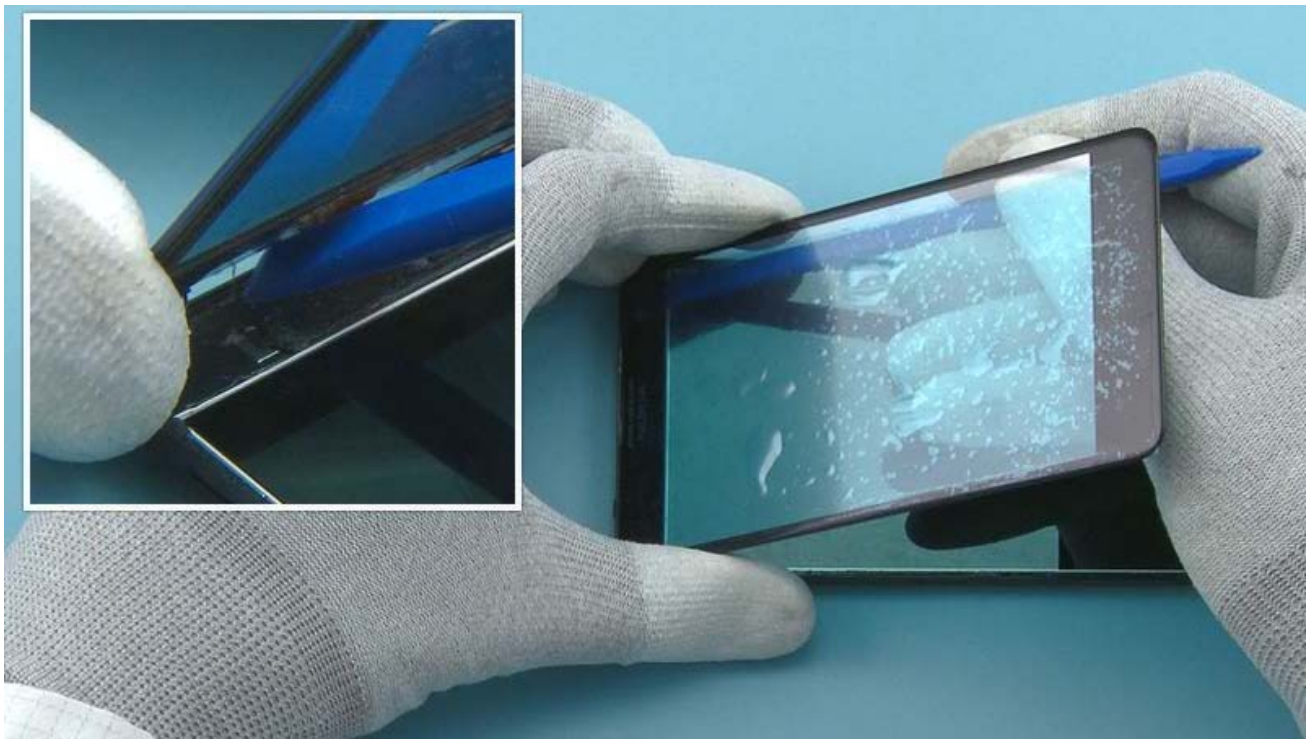
33) Grab the RF CABLE from the metal sheet and remove it.

34) Start releasing the TOUCH PANEL by inserting the SS-93 to the EARPIECE hole. Turn the SS-93 sideways and slide it to the direction shown.

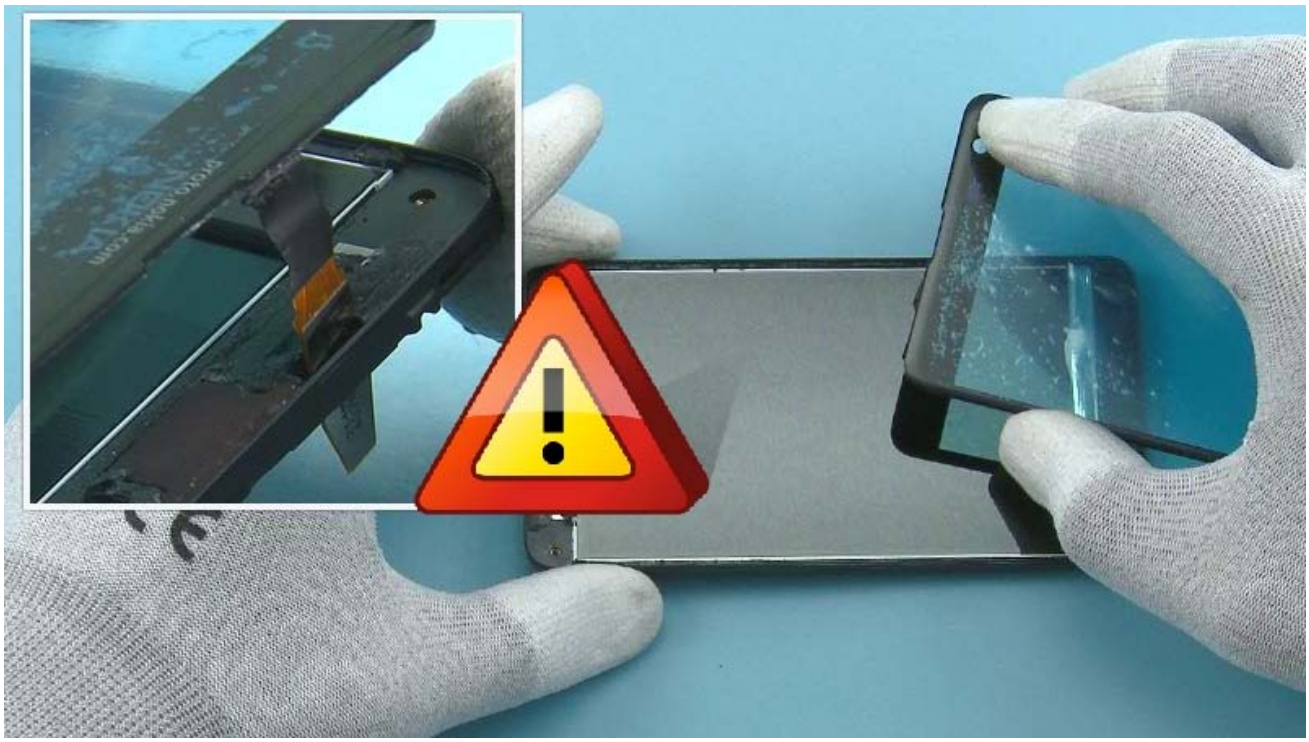
35) Then release the right side of the TOUCH PANEL by sliding the SRT-6 along the side.

36) Then release the bottom side of the TOUCH PANEL by sliding the SS-93 under it. Keep the edge of the SS-93 outside the TOUCH PANEL to avoid damaging the sponge underneath.

37) Then release the left side of the TOUCH PANEL by sliding the SRT-6 along the side.

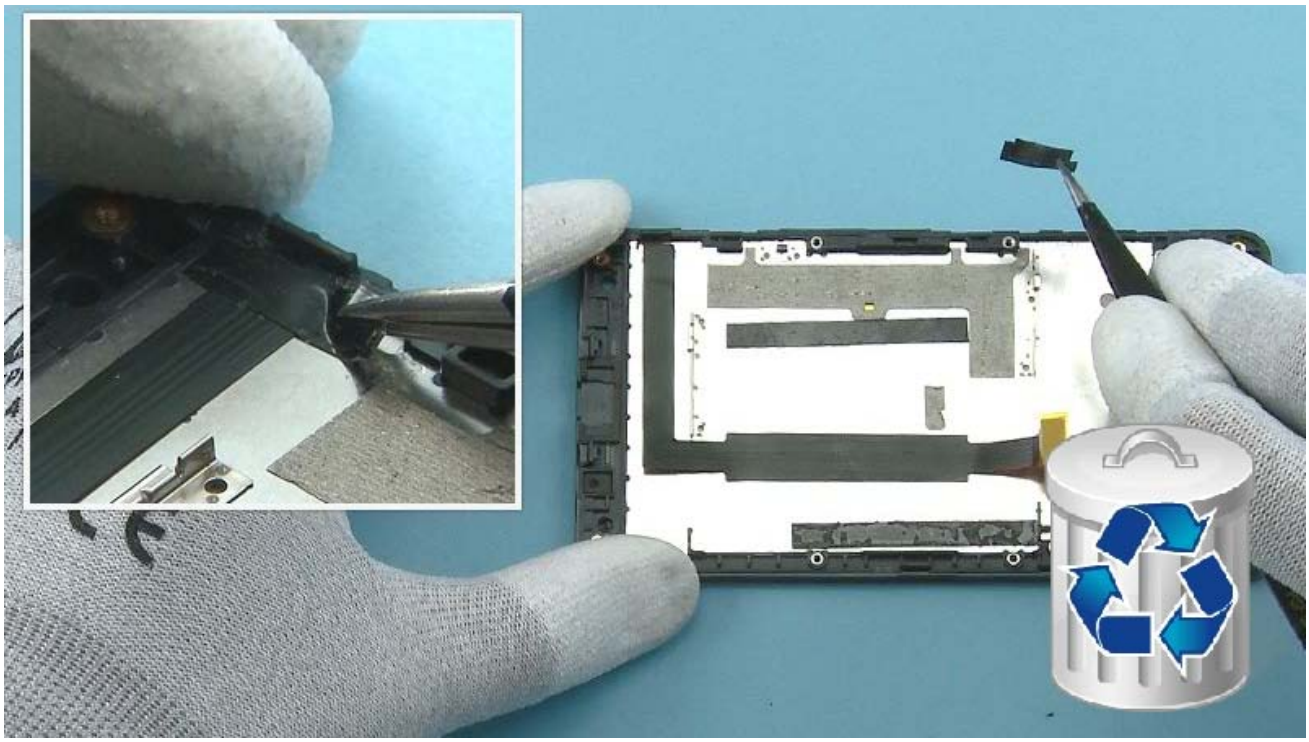


38) Lift up the TOUCH PANEL from the bottom and use the SS-93 to release the rest of the adhesive from the top end.

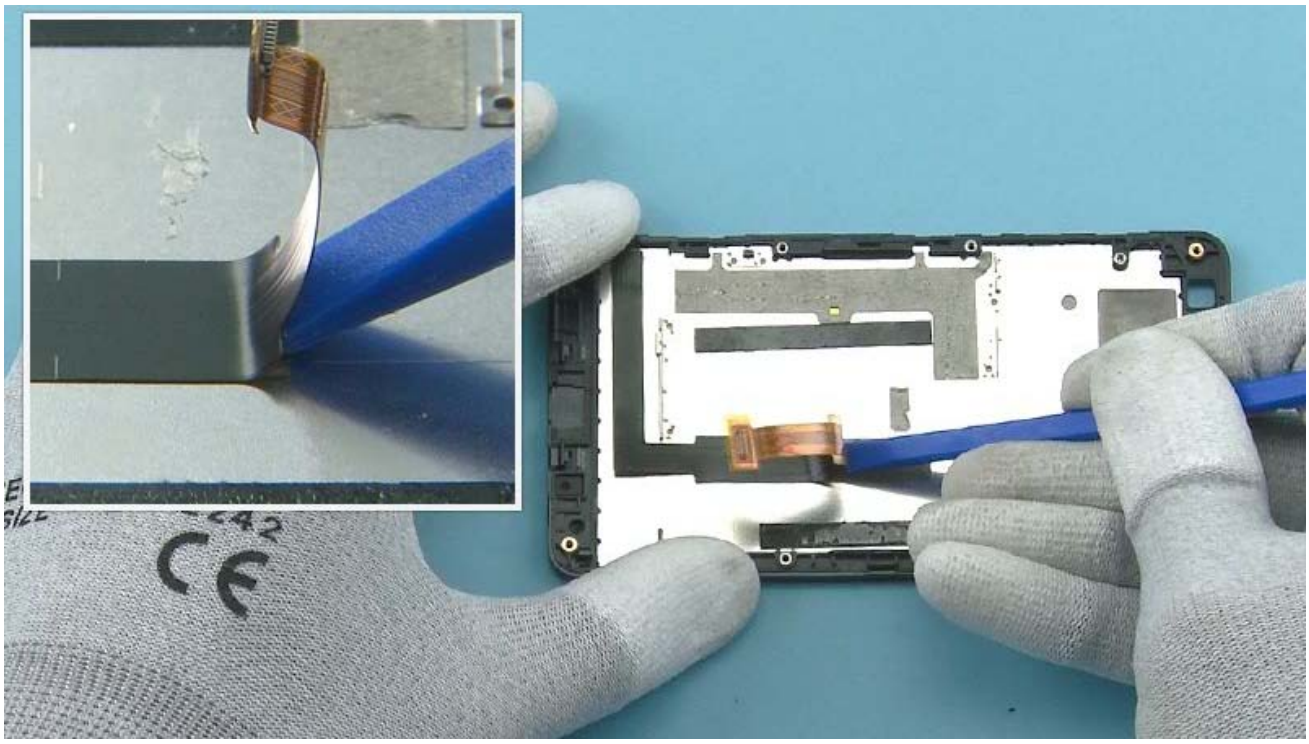


39) Remove the TOUCH PANEL. Be careful not to damage the connector when guiding it through the A-COVER.

40) Protect the DISPLAY with protective film.

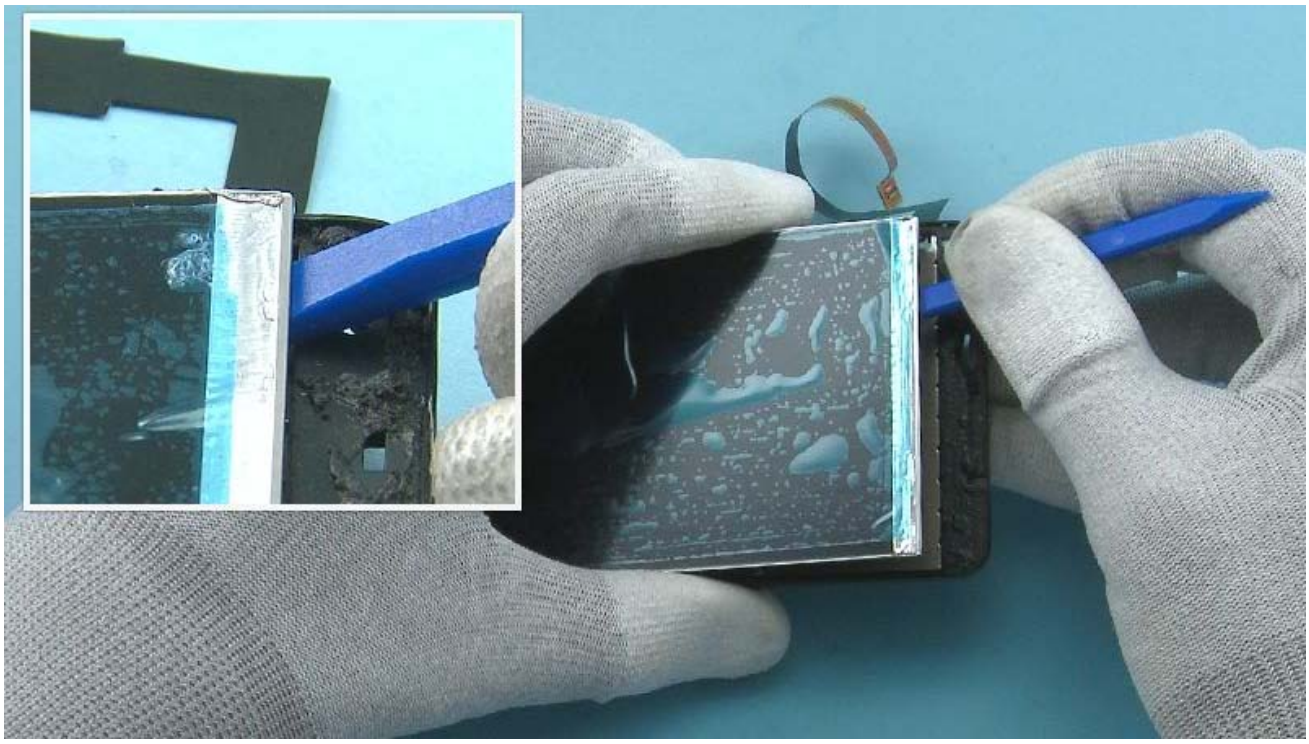


41) Remove and discard the DISPLAY MYLAR with tweezers.

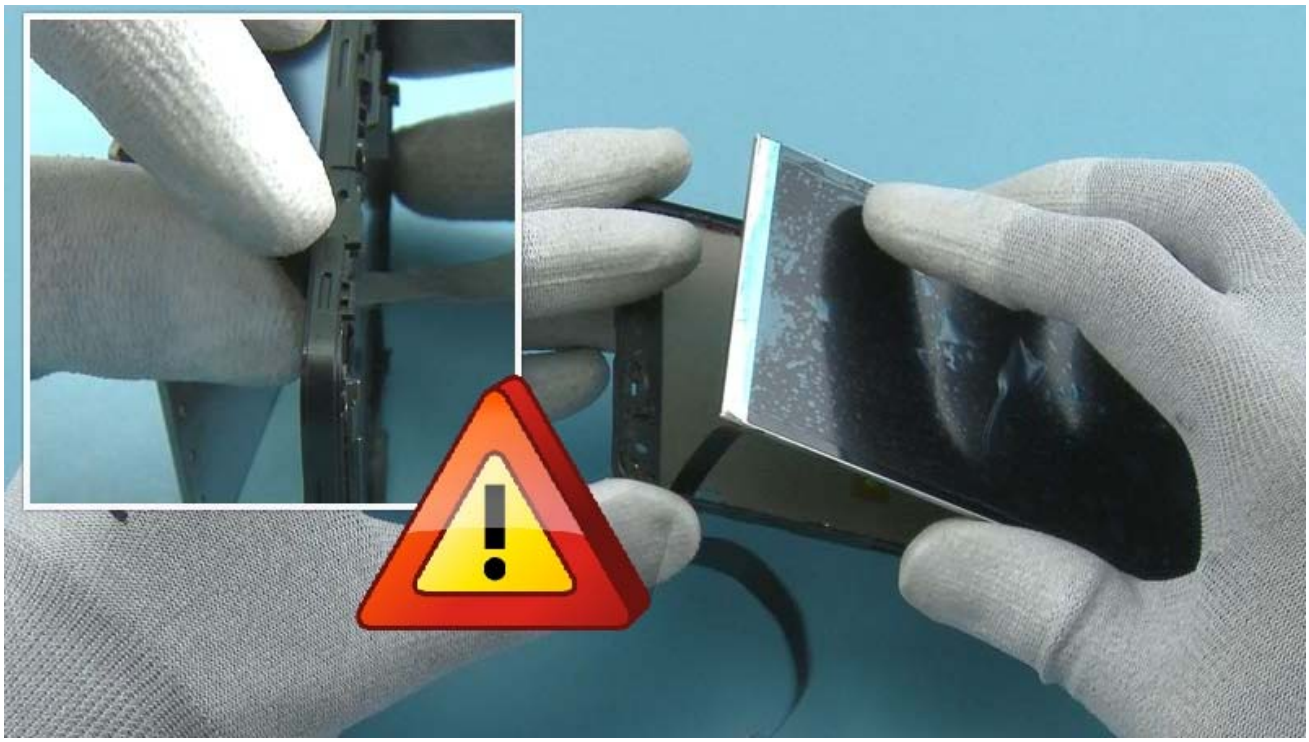


42) Peel off the DISPLAY flex from the A-COVER.

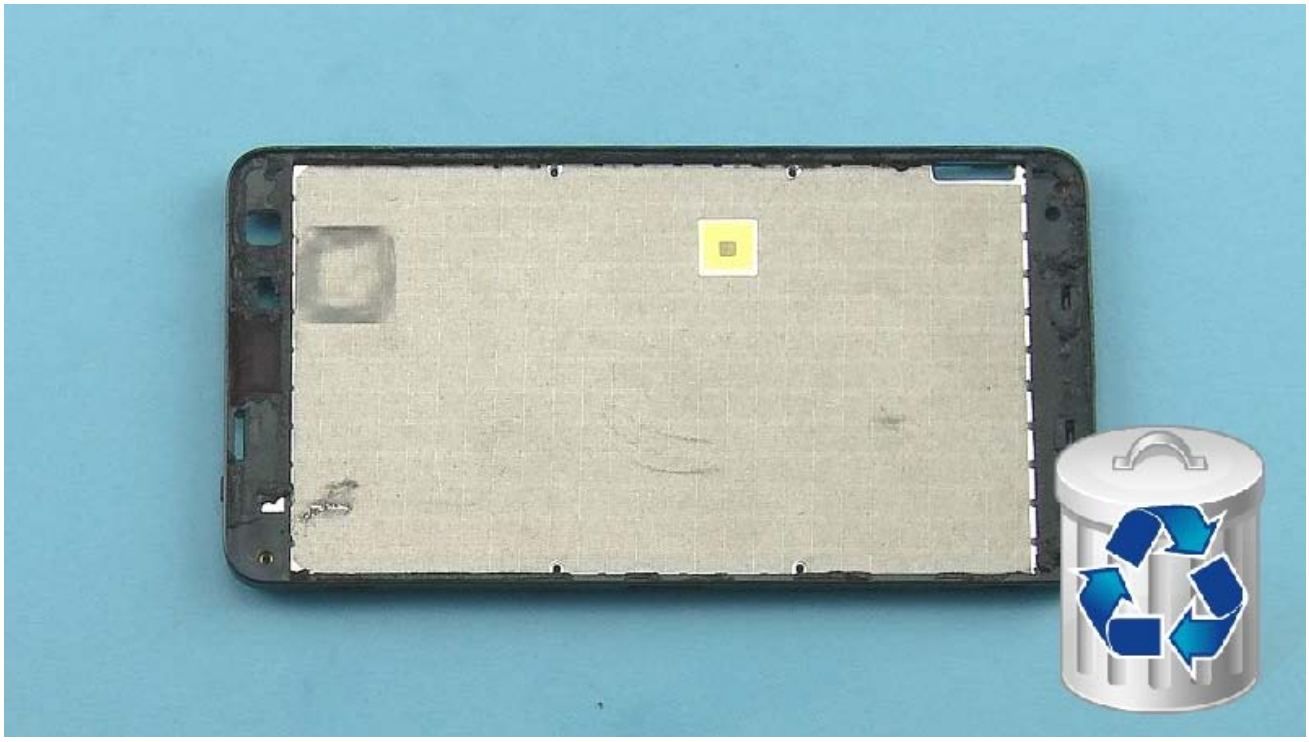
43) Release the DISPLAY by slightly pushing it out from the shown place with the sharp end of the SS-93.



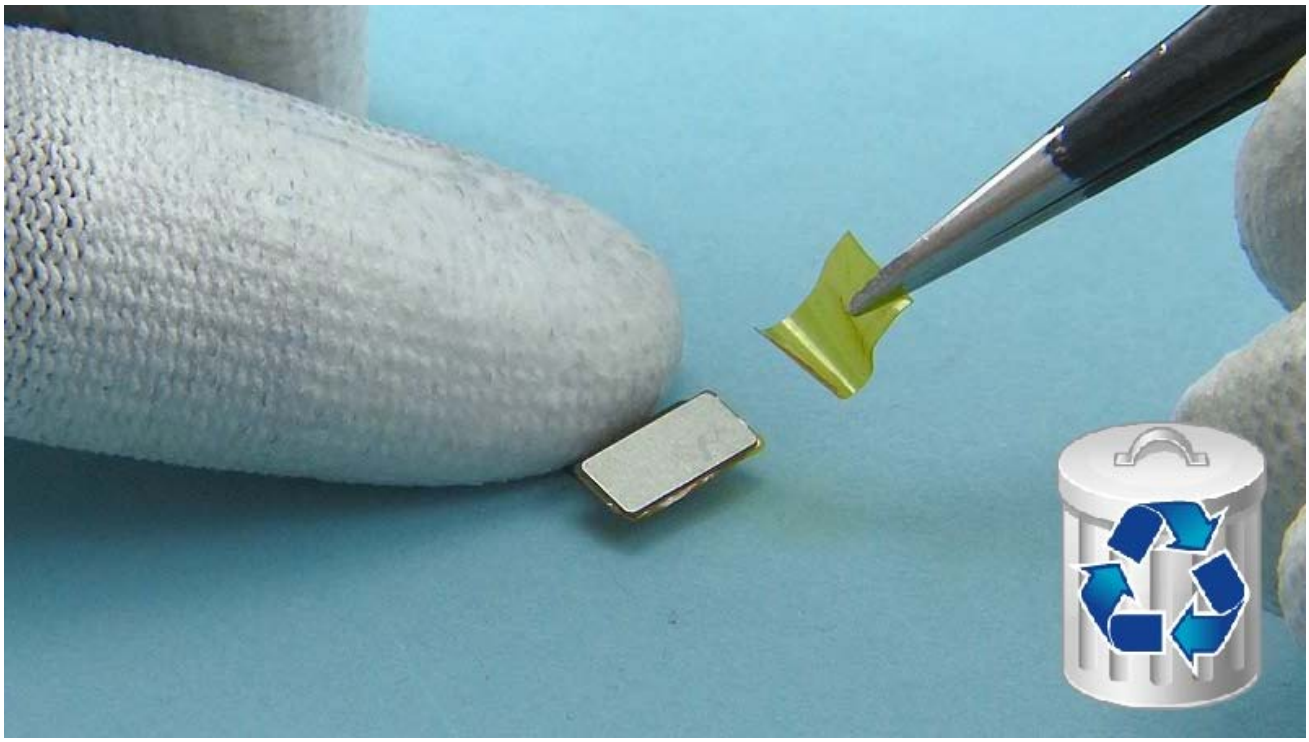
44) Then carefully push the SS-93 under the DISPLAY from the shown place and release the adhesive holding it.



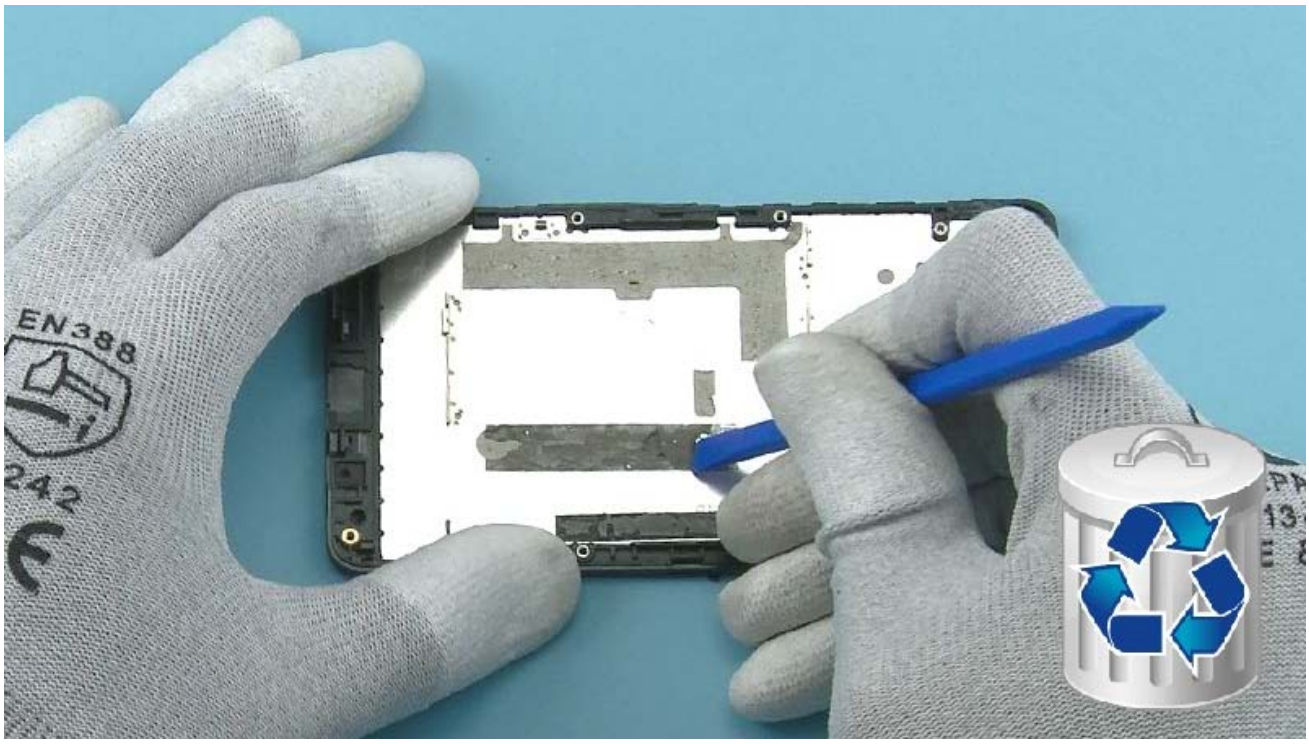
45) Lift up the DISPLAY and carefully guide the DISPLAY flex through the A-COVER. Be careful not to damage the flex or the connector.



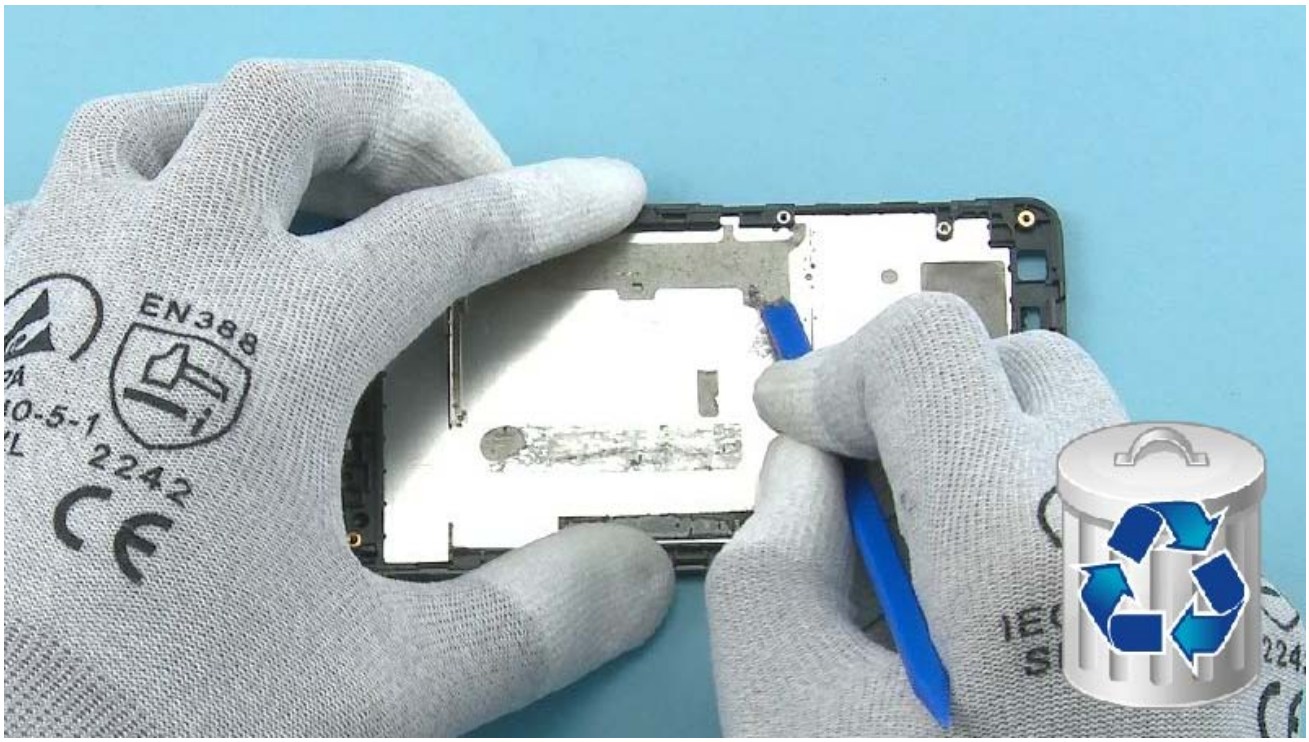
46) Note that if the TOUCH PANEL or the DISPLAY is removed, the A-COVER is not reusable.



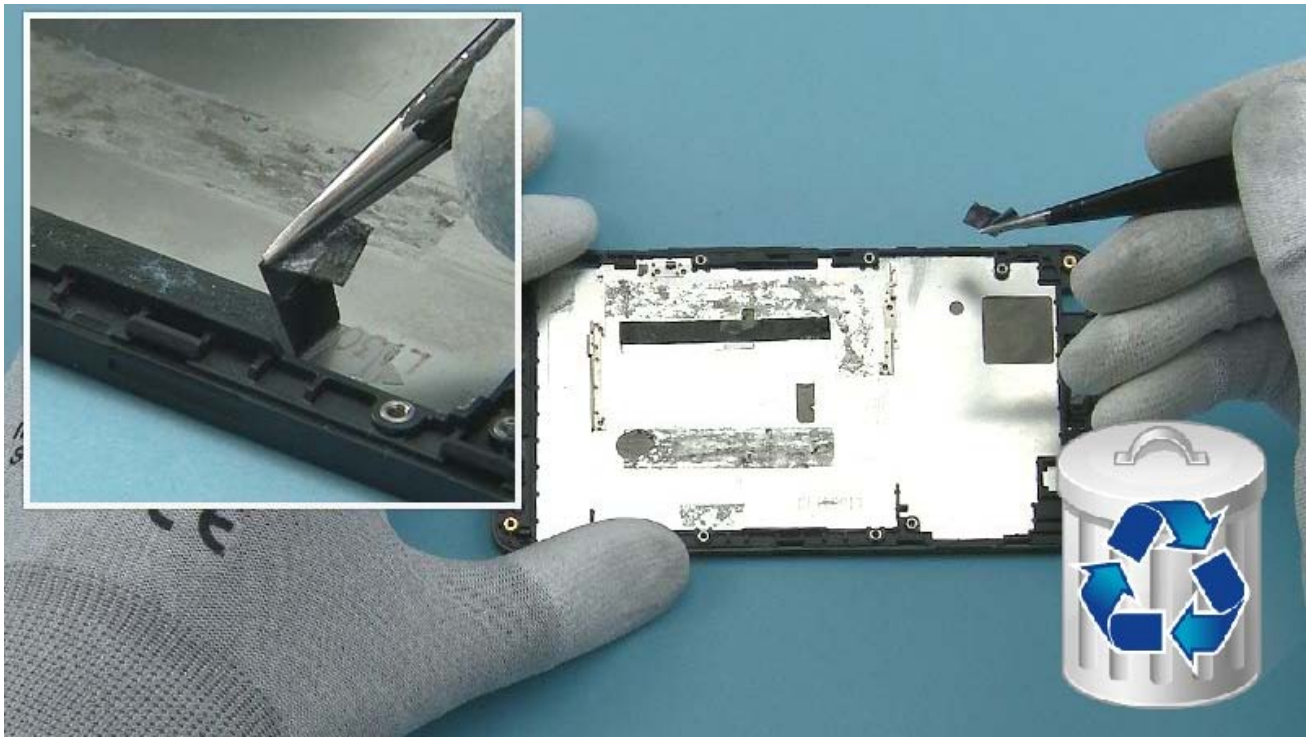
47) Peel off and discard the DISPLAY CONNECTOR FILM.



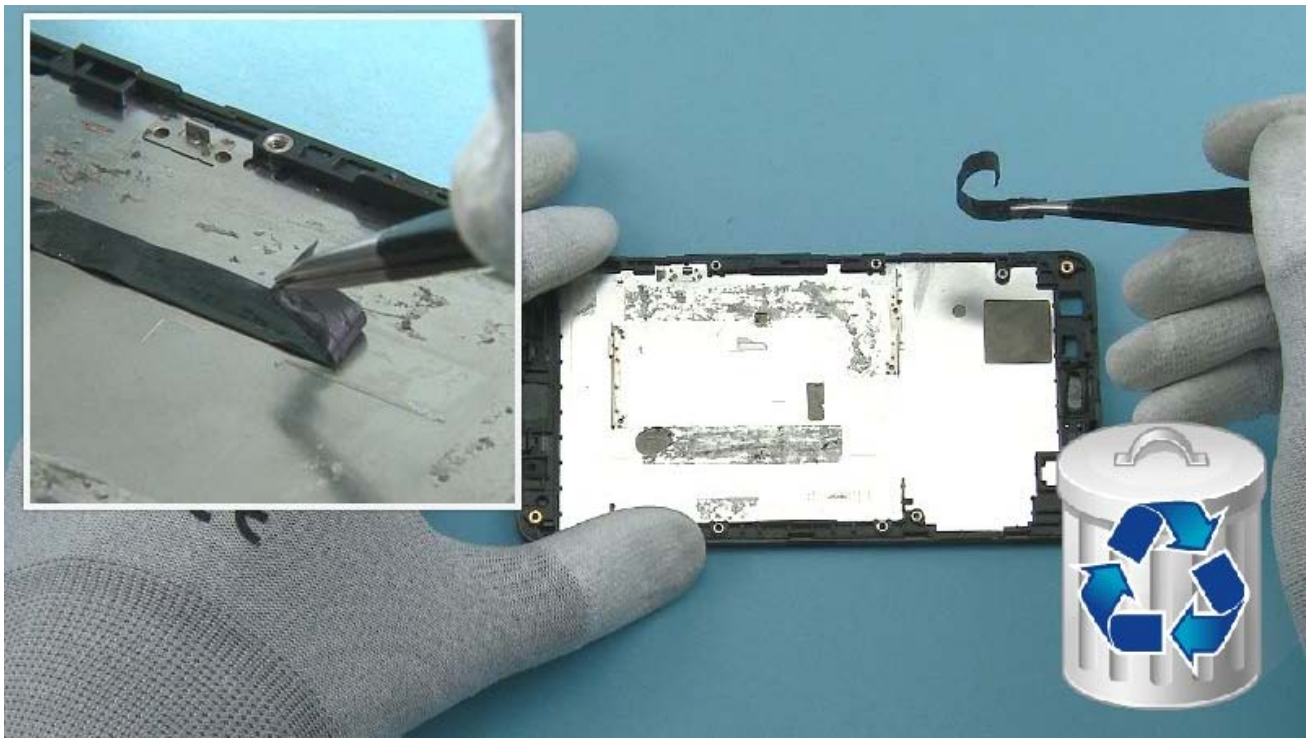
48) Peel off and discard the DISPLAY FLEX ADHESIVE with the SS-93. If available, use a hot air gun to heat up the adhesive before peeling it off. This makes it easier to remove all of the adhesive residue.



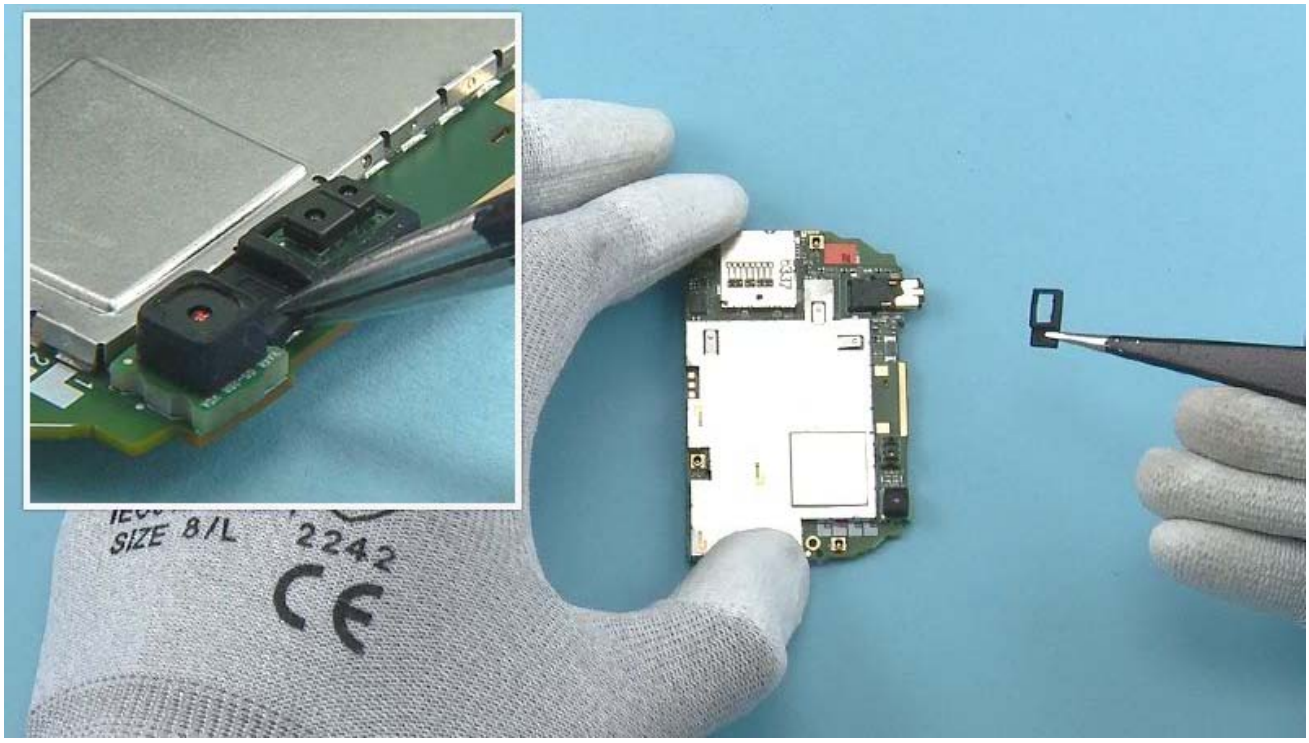
49) Peel off and discard the SIDE KEY FLEX adhesive with the SS-93. If available, use a hot air gun to make the procedure easier.



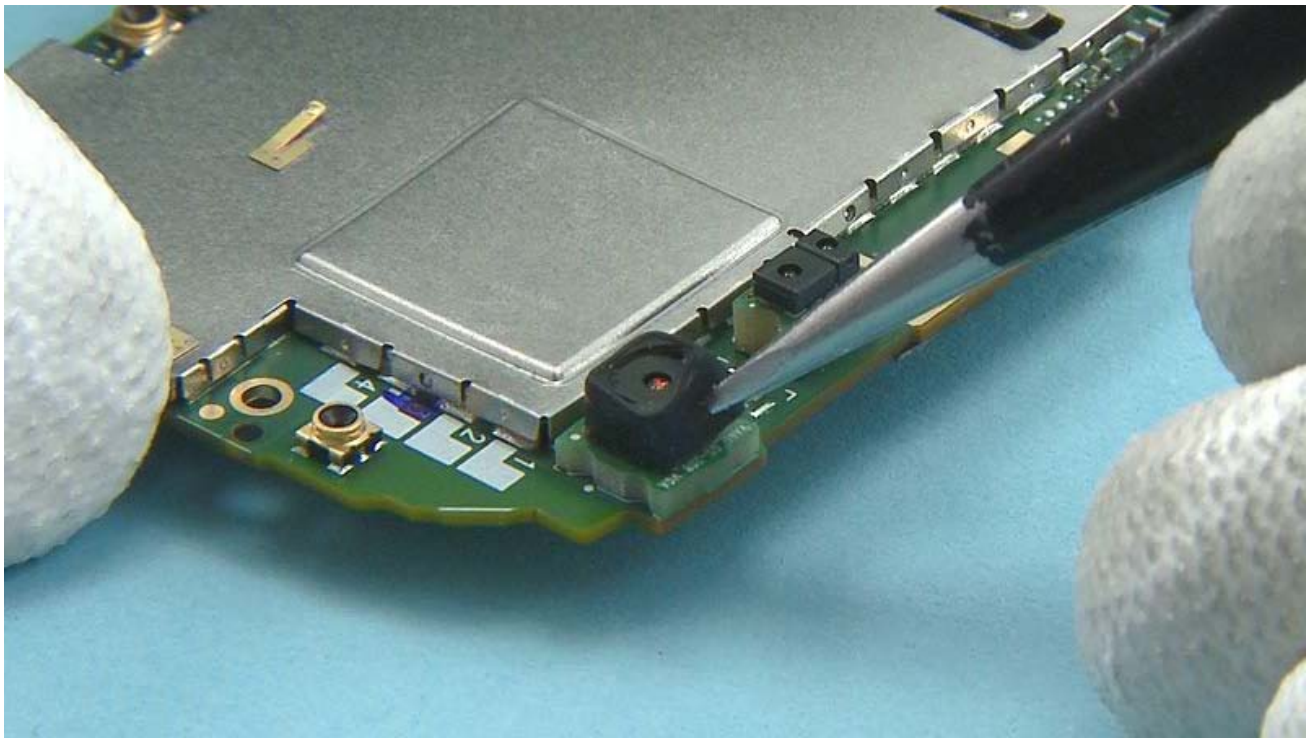
50) Peel off and discard the BATTERY ADHESIVE.



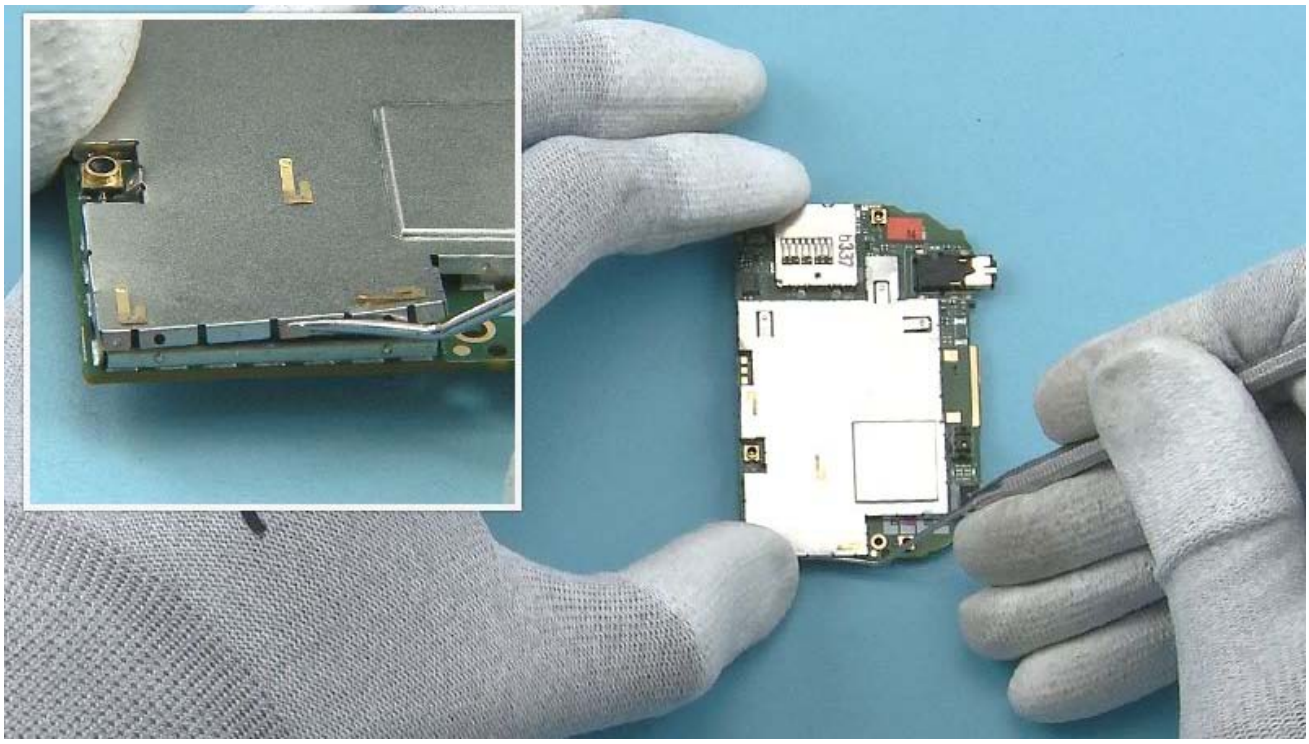
51) Peel off and discard the second BATTERY ADHESIVE.



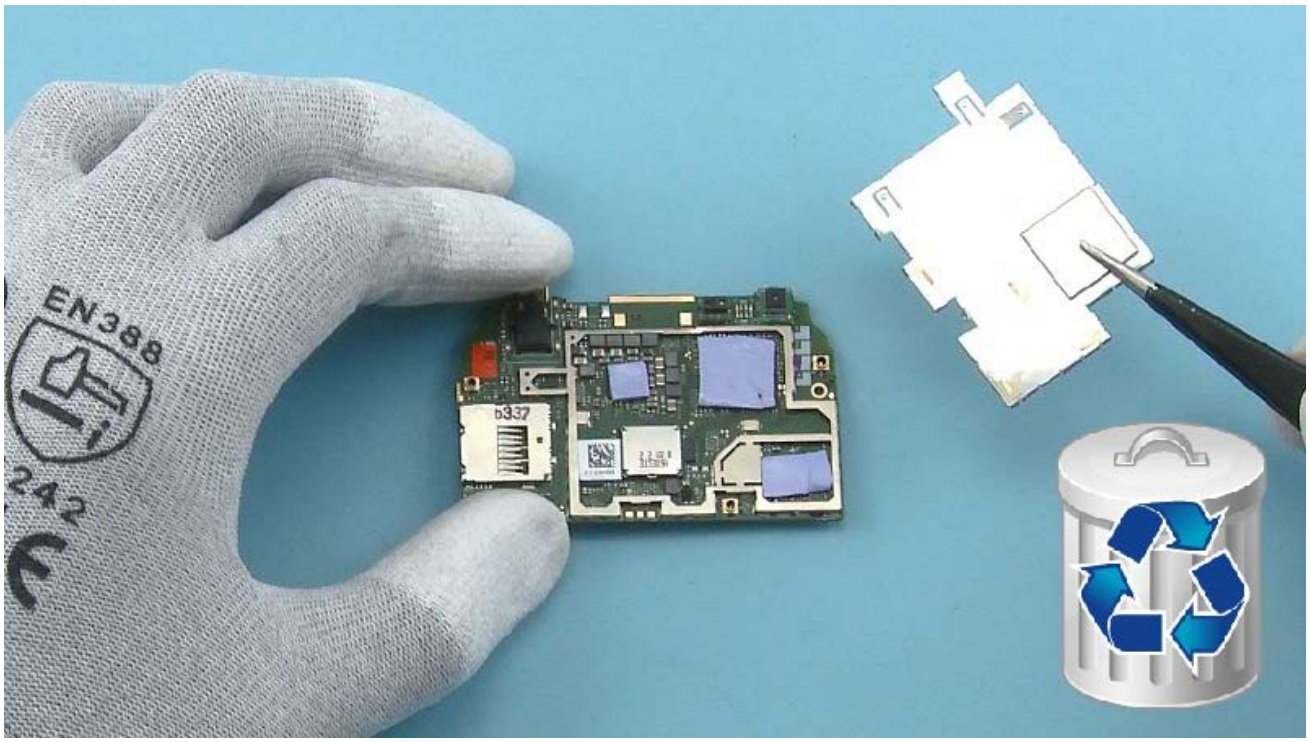
52) Remove the PROXIMITY SENSOR RUBBER from the ENGINE BOARD with tweezers.



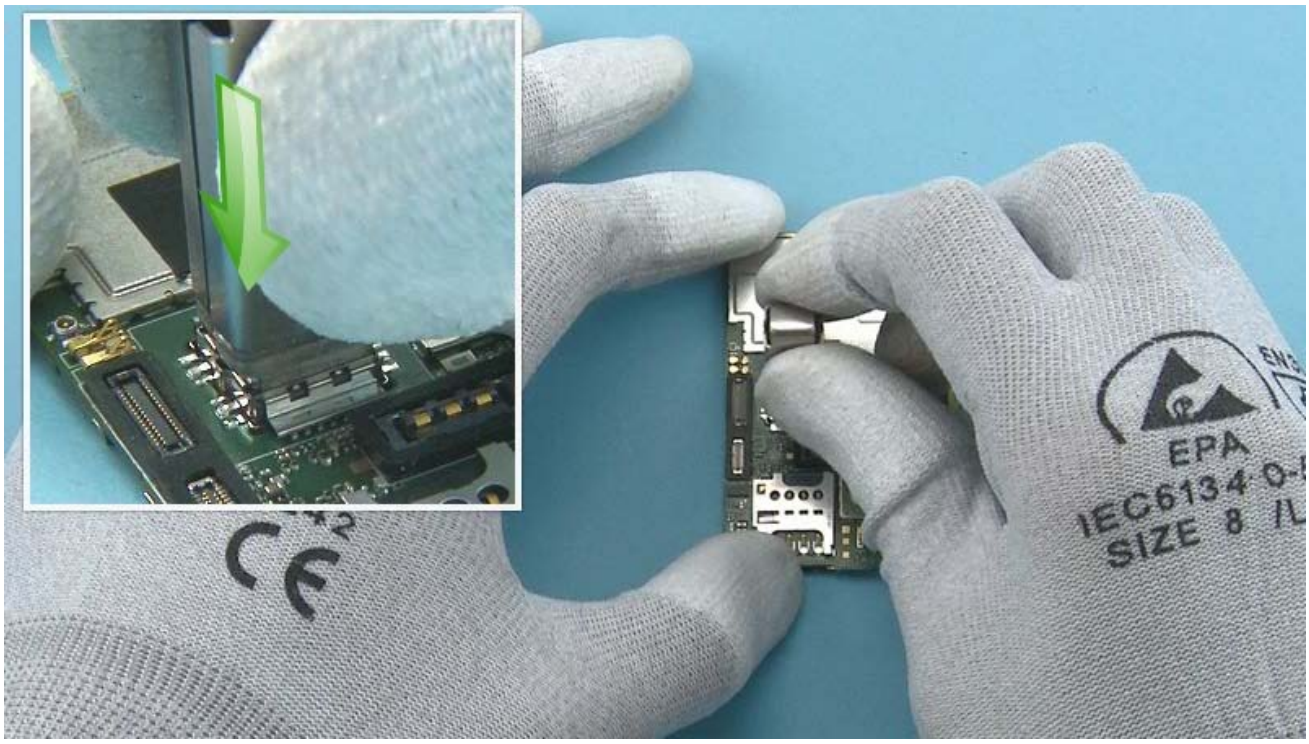
53) Remove the FRONT CAMERA RUBBER.



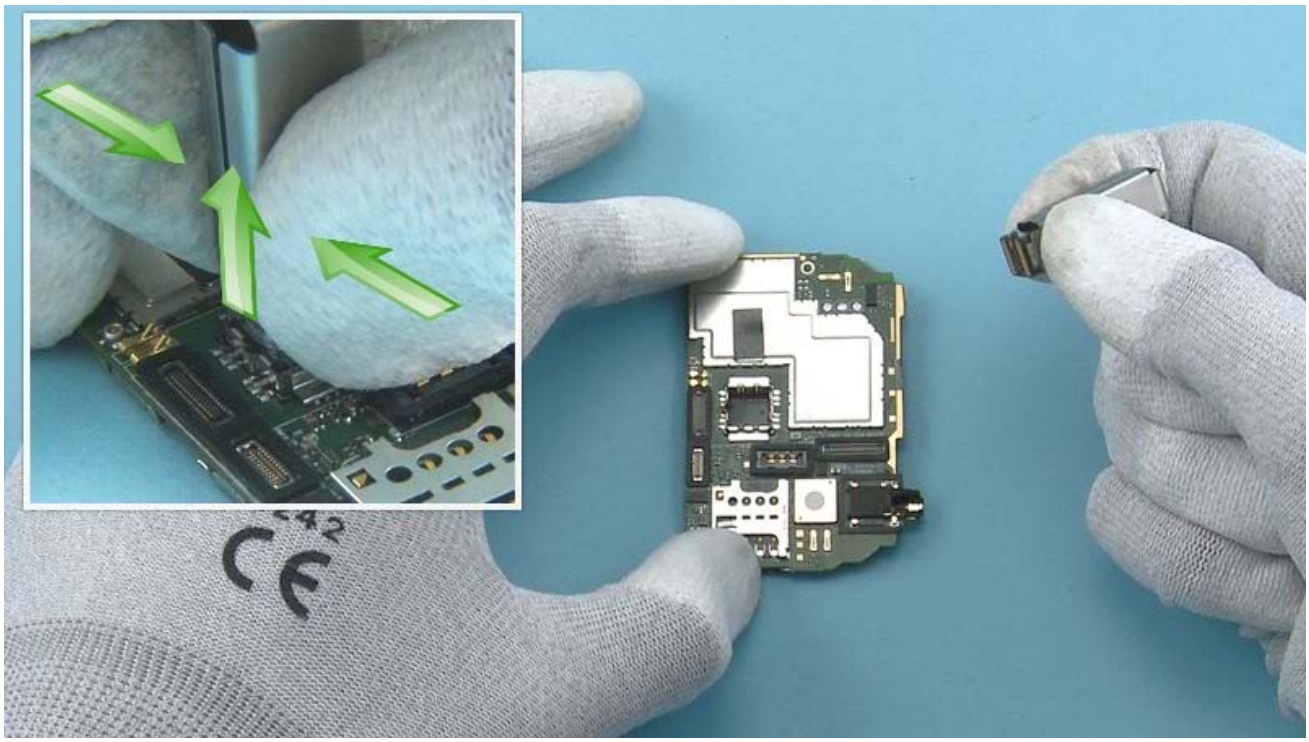
54) Release the sides of the TOP SHIELDING LID with the dental tool.



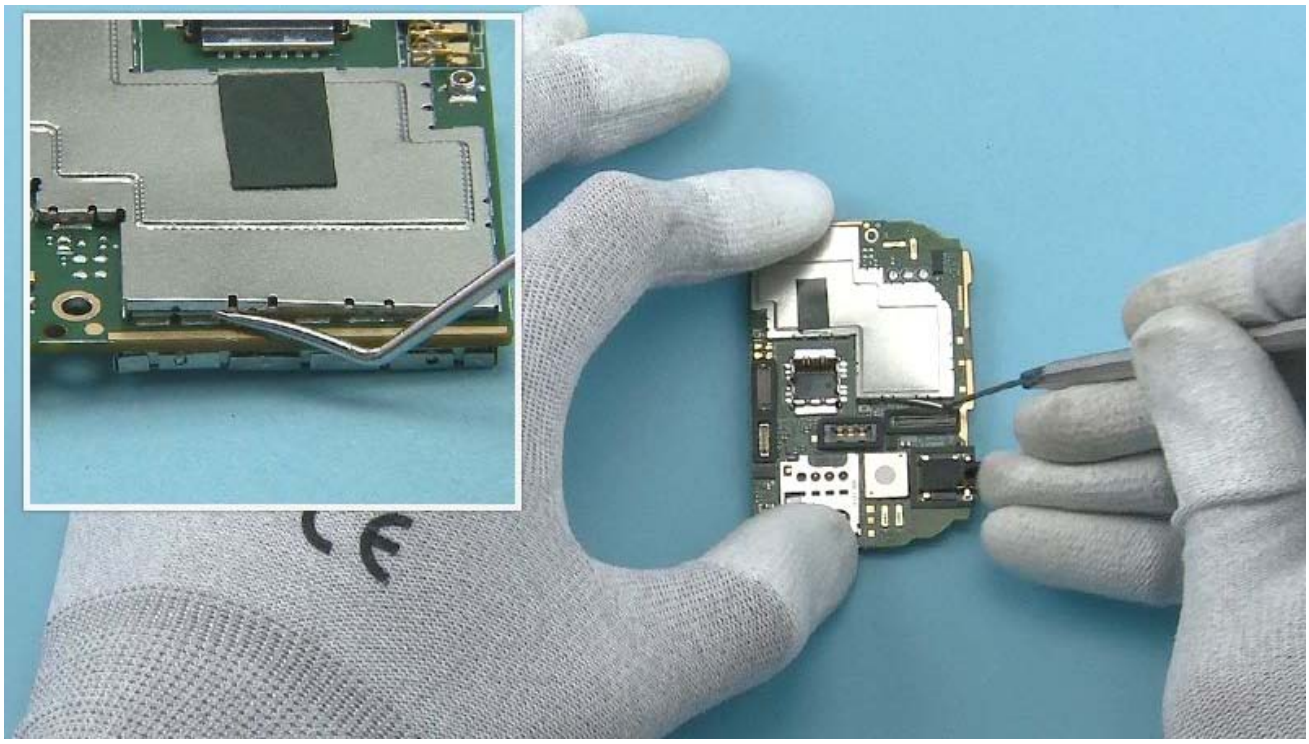
55) Remove and discard the TOP SHIELDING LID.



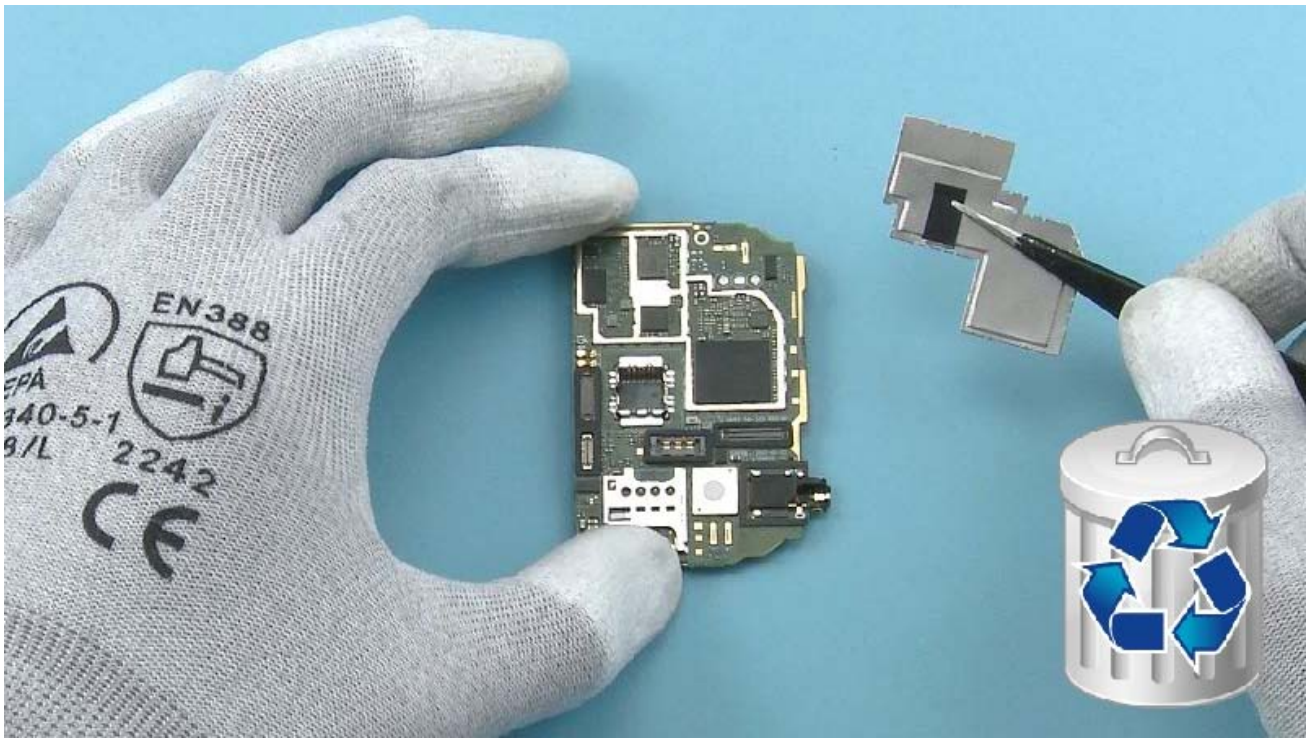
56) Remove the CAMERA by first pushing the SS-305 to the CAMERA socket.



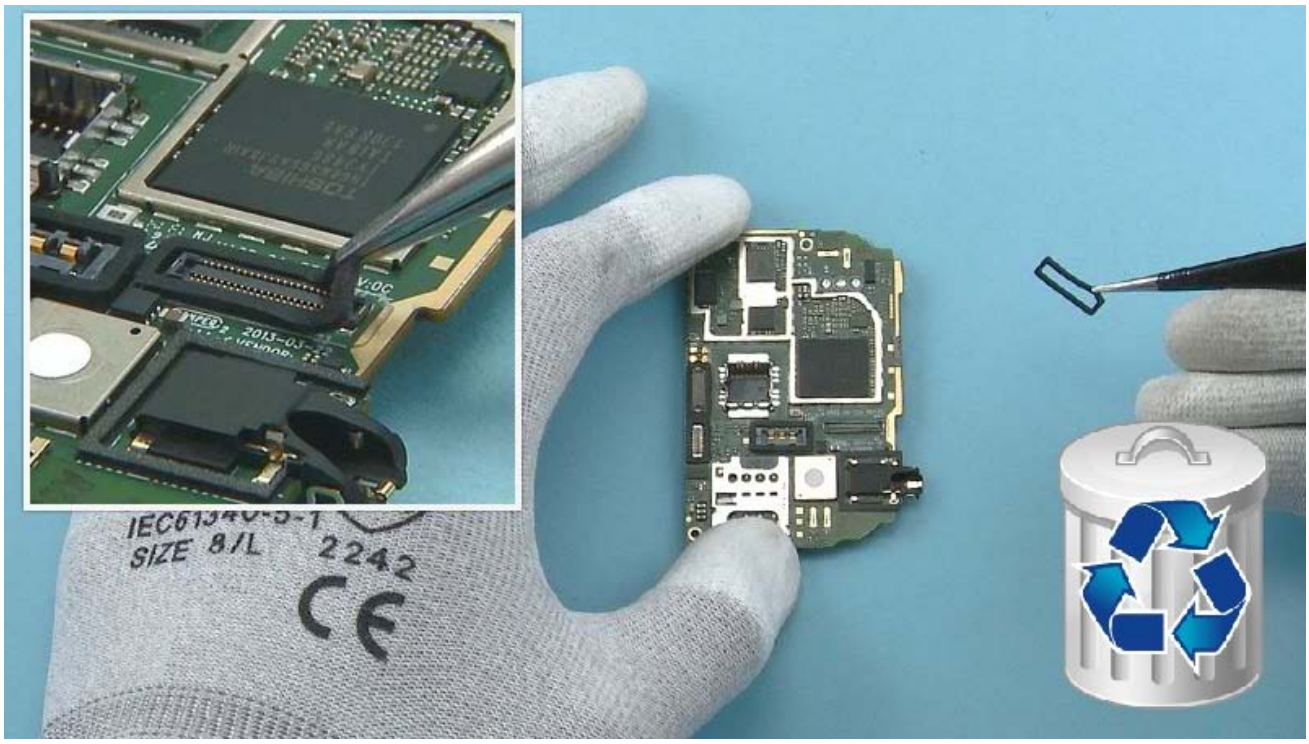
57) Then hold from the sides of the SS-305 and lift up the CAMERA.



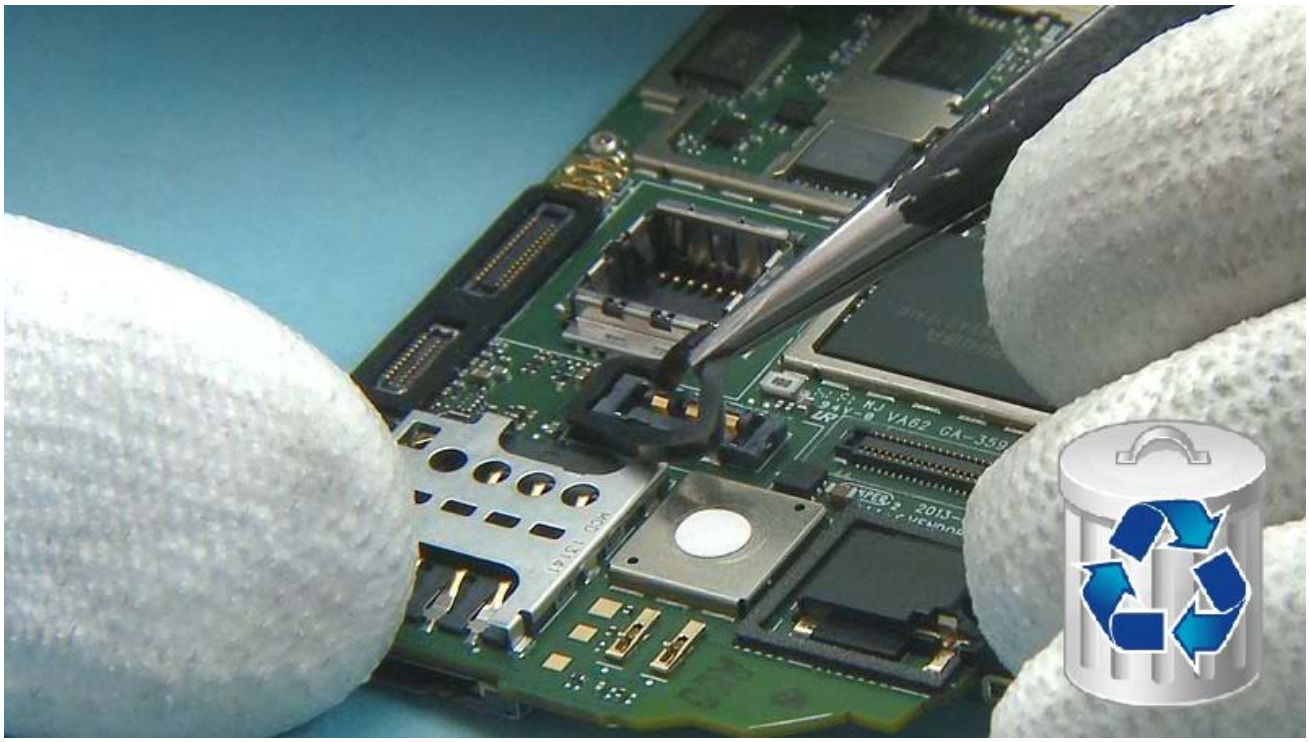
58) Release the sides of the BOTTOM SHIELDING LID with the dental tool.



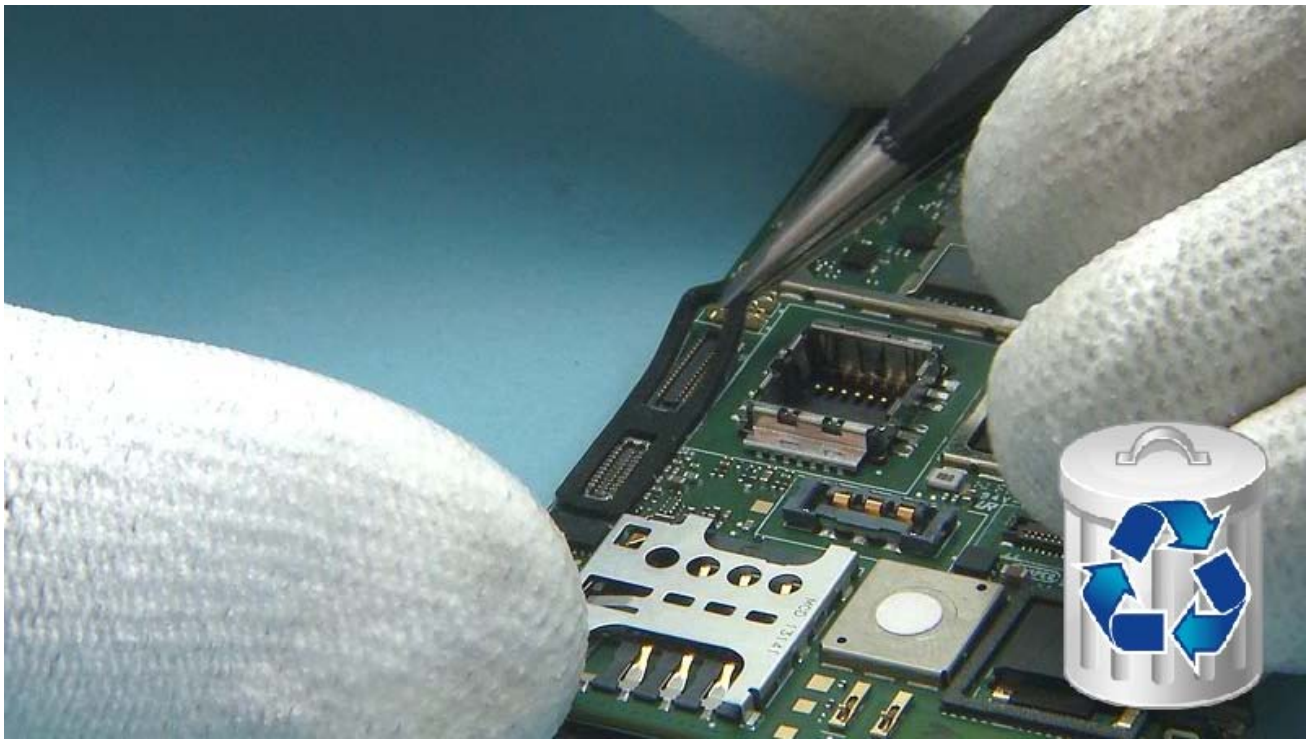
59) Remove and discard the BOTTOM SHIELDING LID.



60) Remove and discard the TOUCH PANEL CONNECTOR RUBBER with tweezers.

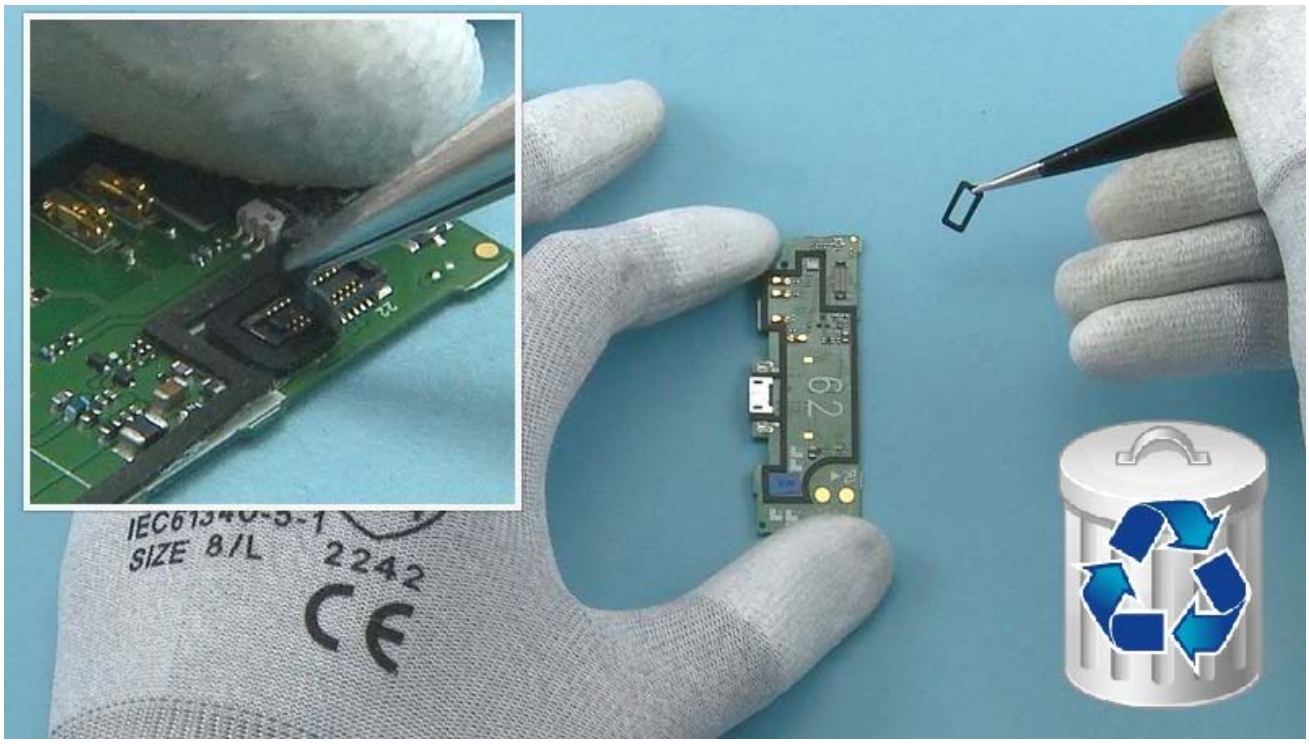


61) Remove and discard the BATTERY CONNECTOR RUBBER.

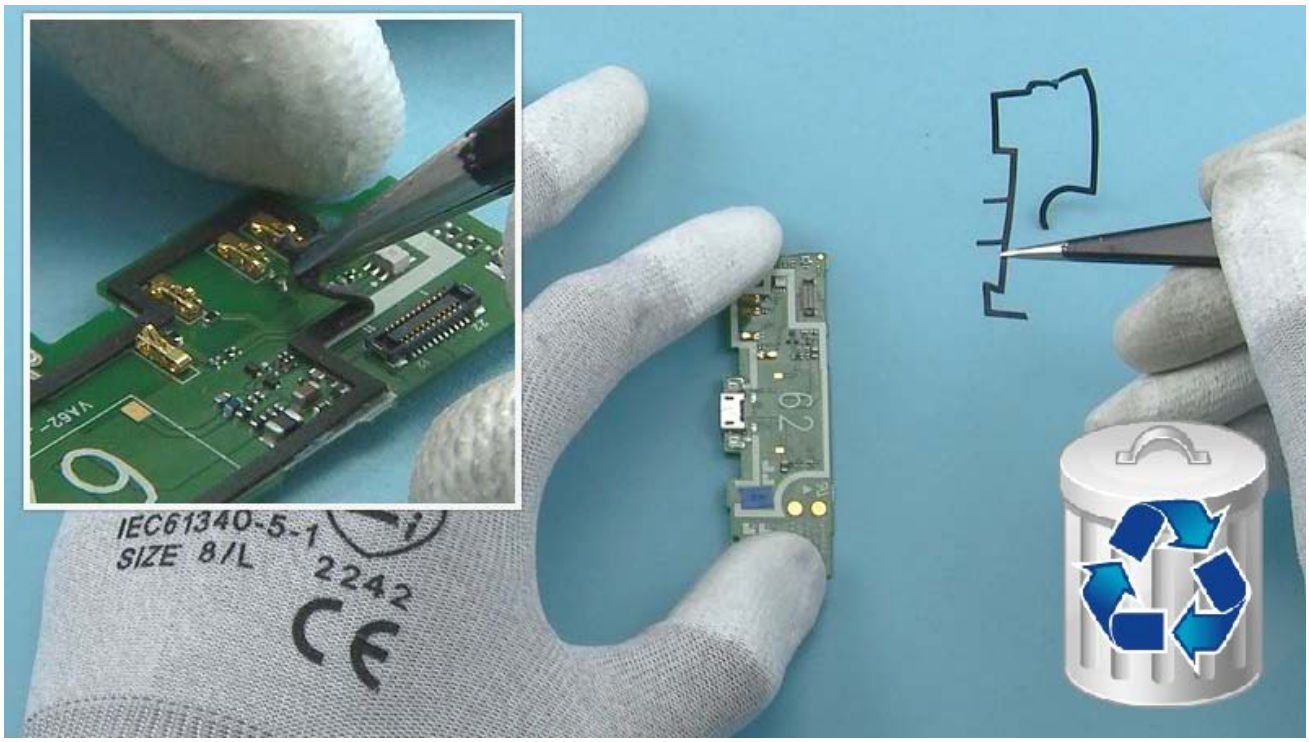


62) Remove and discard the DISPLAY AND SIDE KEY CONNECTOR RUBBER.

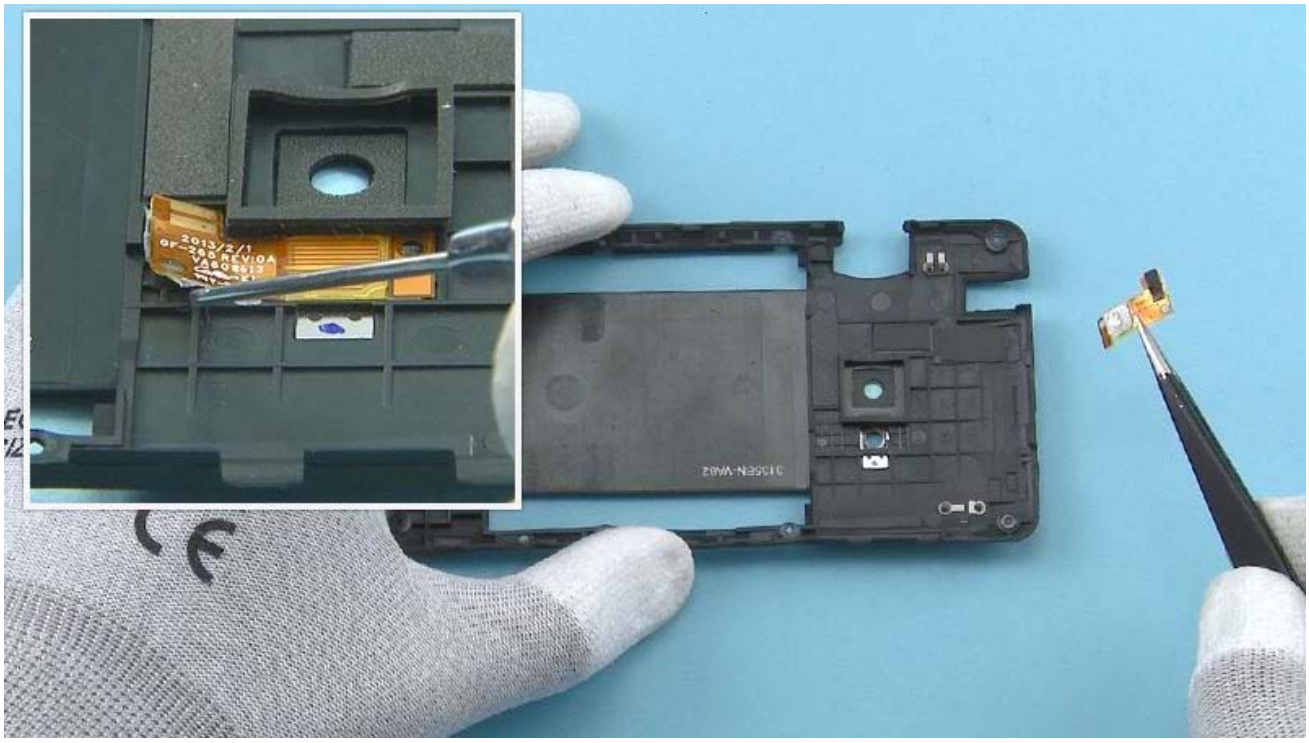
63) Remove and discard the AV CONNECTOR SPONGE.



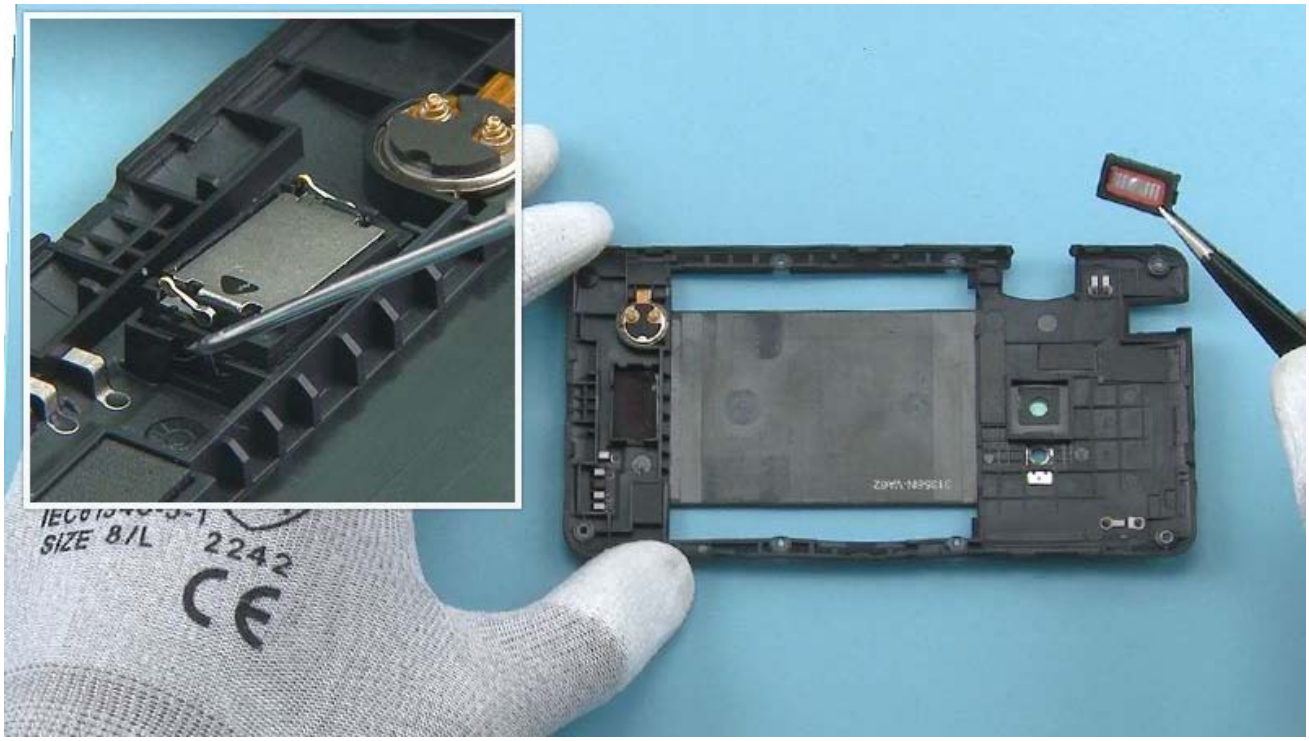
64) Remove and discard the SIDE KEY SUB BOARD CONNECTOR RUBBER.



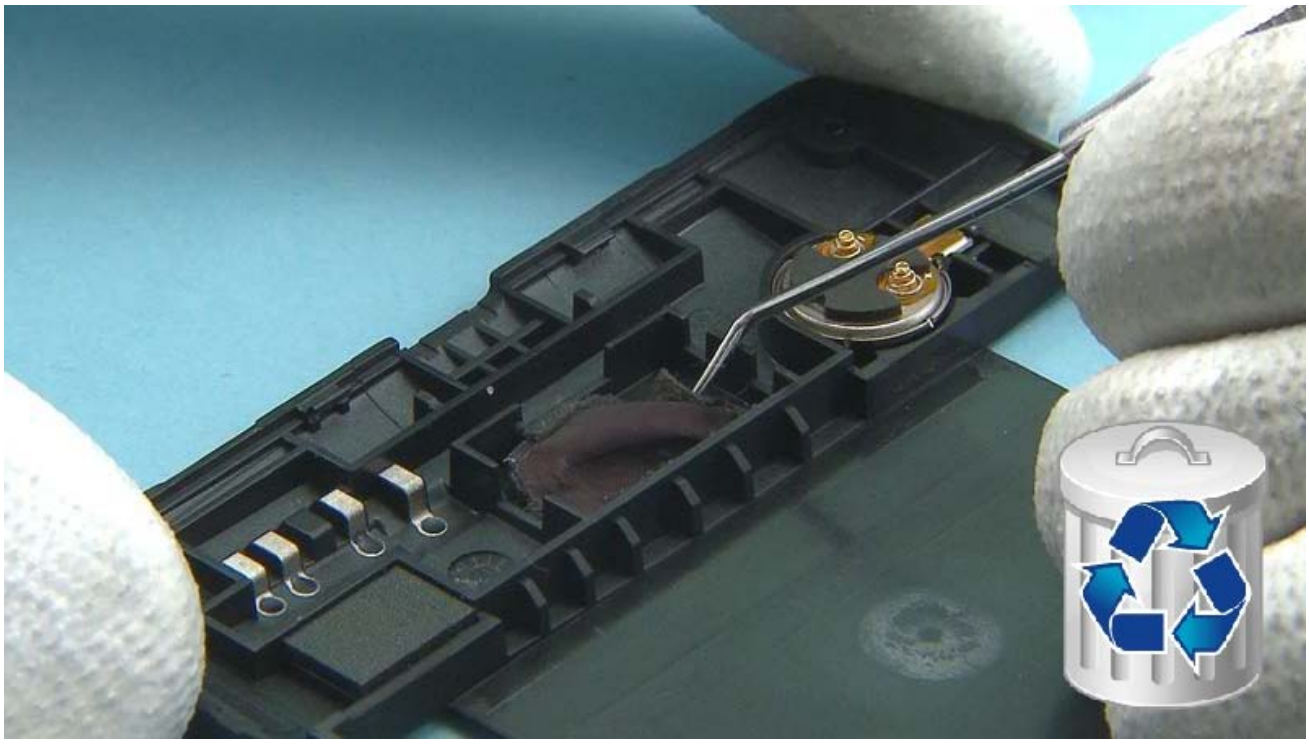
65) Remove and discard the SPEAKER SEALING SPONGE.



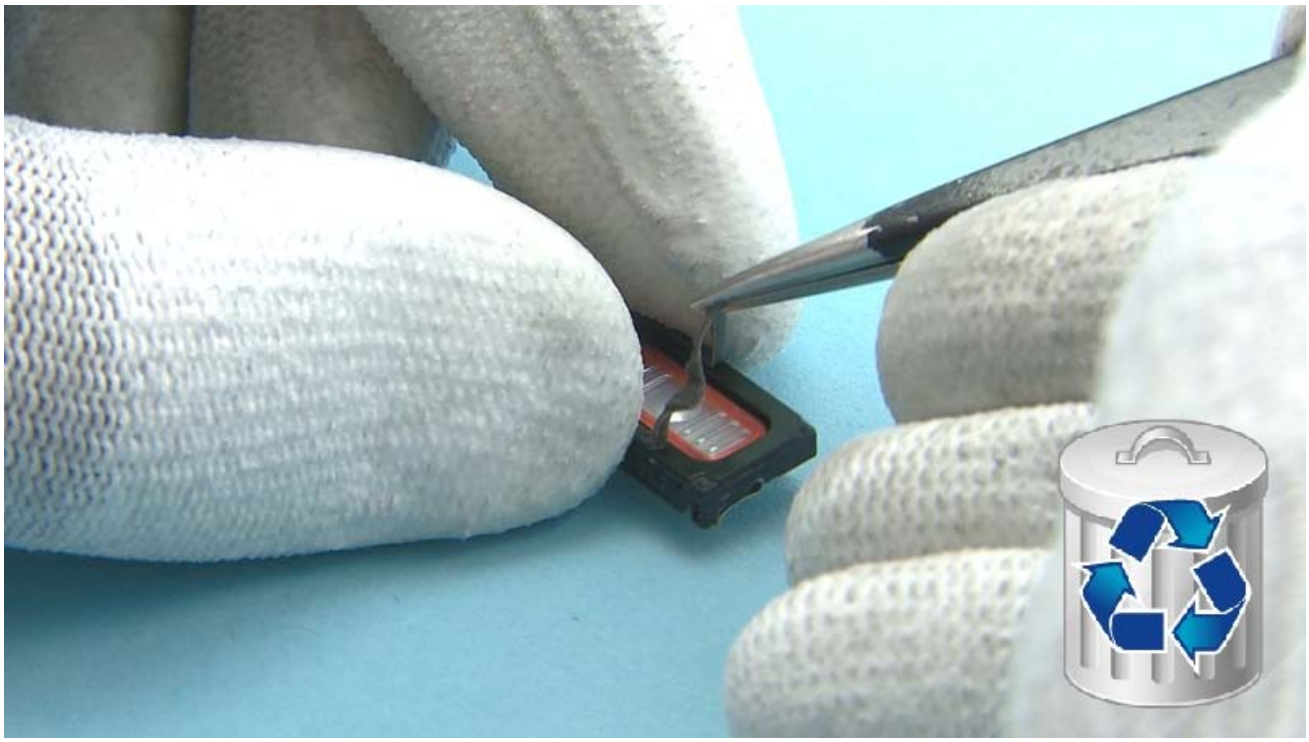
66) Release the LED FLASH FLEX with the dental tool and remove it with tweezers.



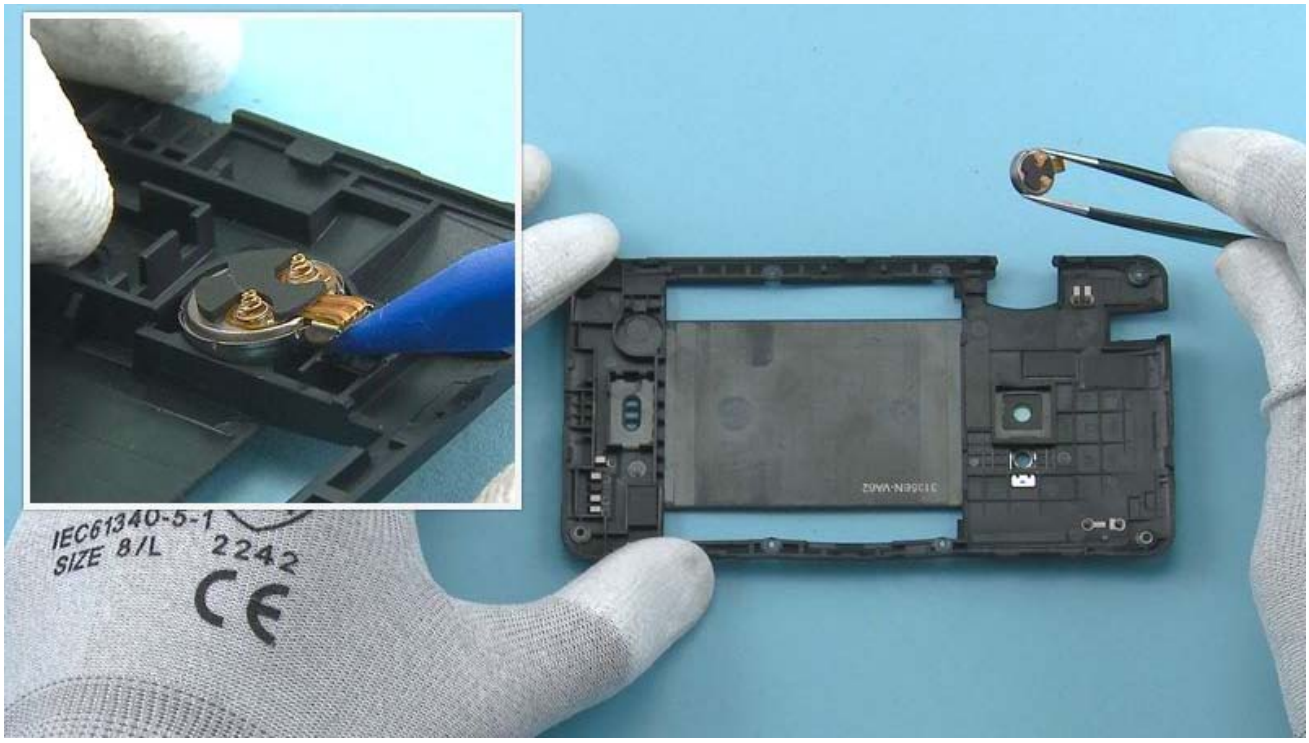
67) Release the IHF SPEAKER with the dental tool and remove it with tweezers.



68) Remove and discard the SPEAKER ADHESIVE with the dental tool.



69) Remove and discard the SPEAKER ADHESIVE residue from the IHF SPEAKER.



70) Release the VIBRA with the sharp end of the SS-93 and remove it with tweezers.

71) The Nokia Lumia 625 disassembly procedure is complete.

-END OF DISASSEMBLY-

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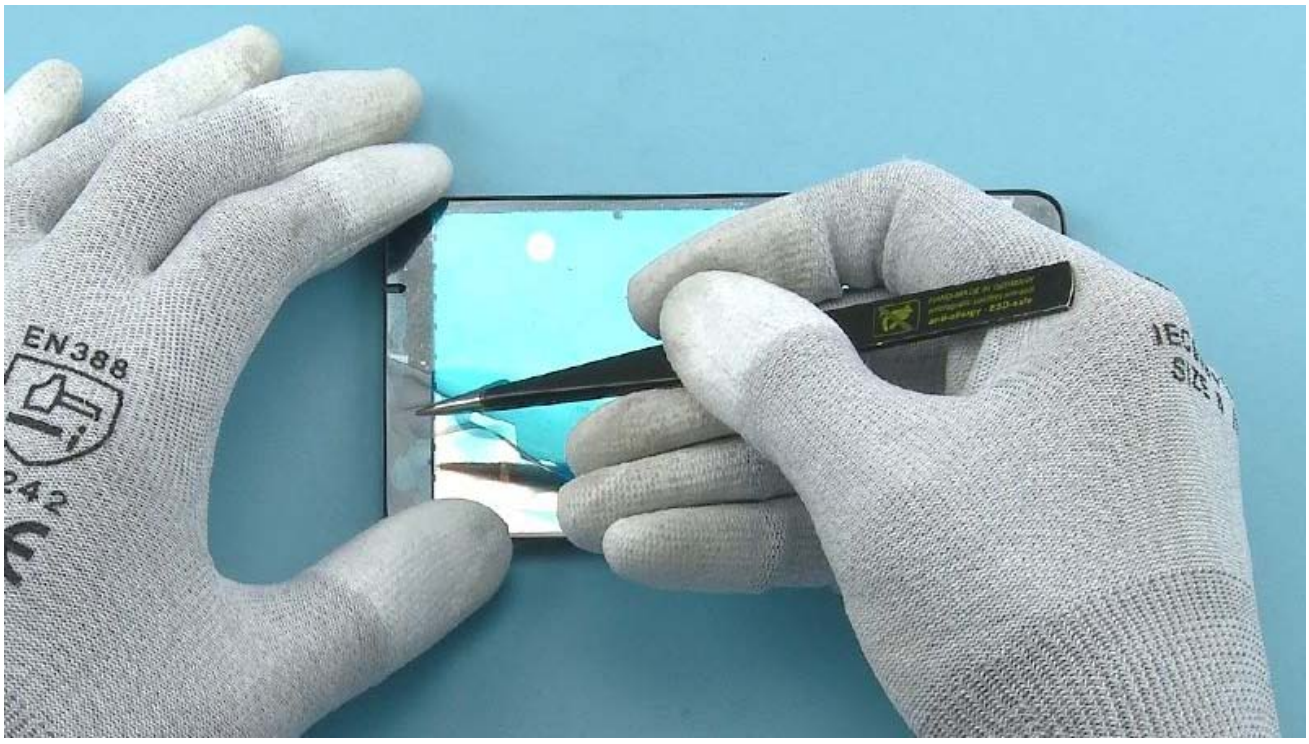
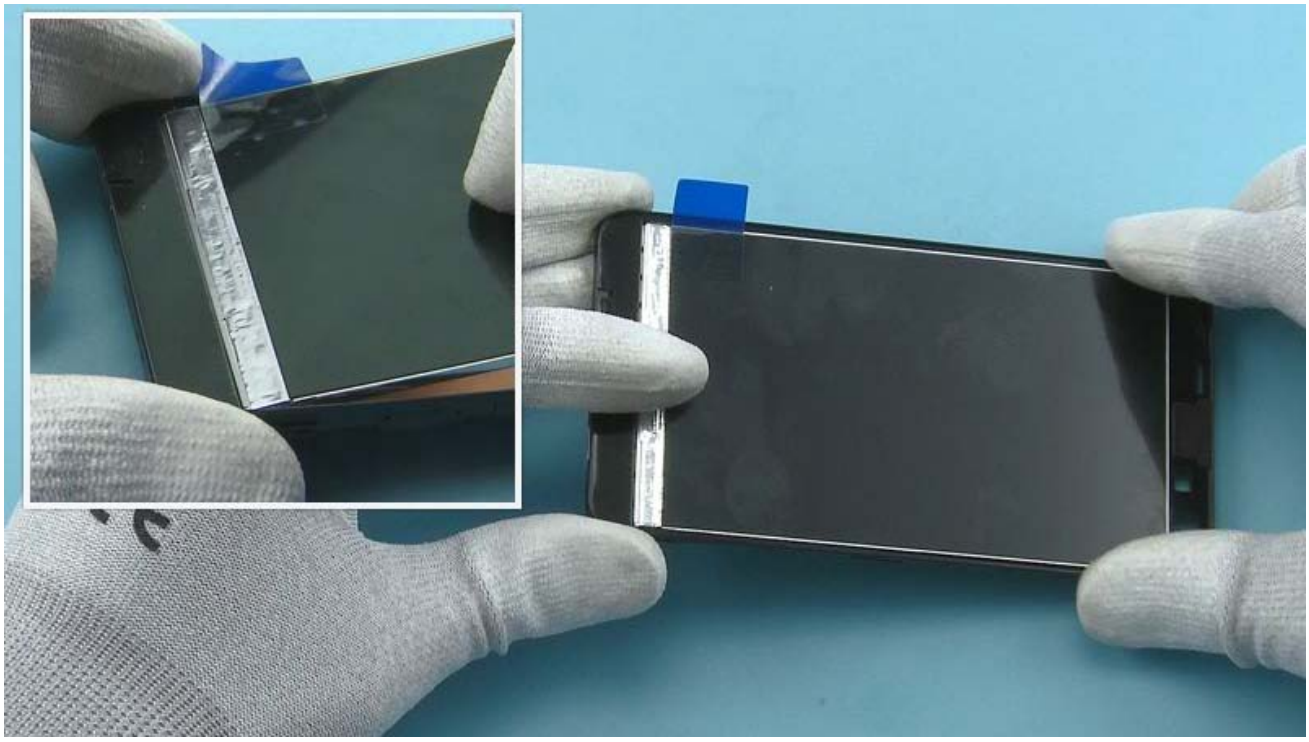
1) For assembling you need the Nokia Standard Tool kit version 2. You will also need the RF connector disassembly/assembly tool SS-231 or the SS-298.

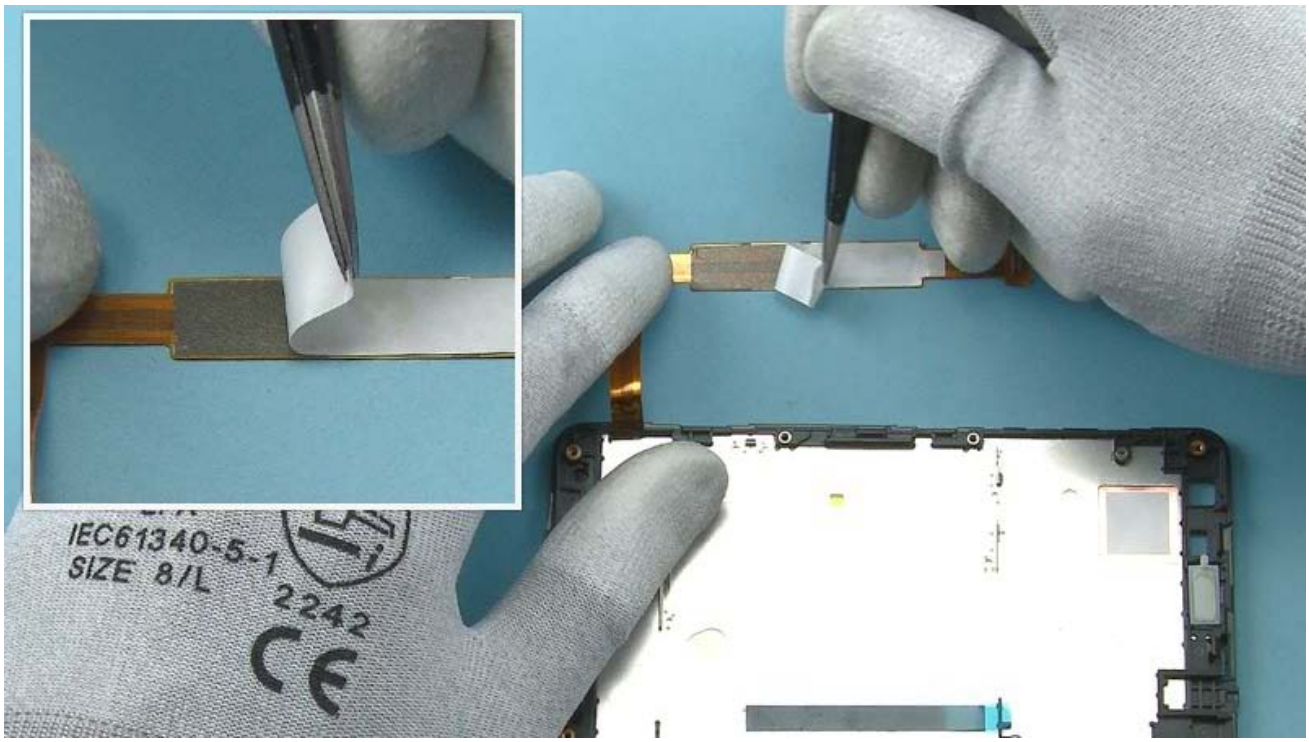


2) Peel off the protective film from the A-COVER.

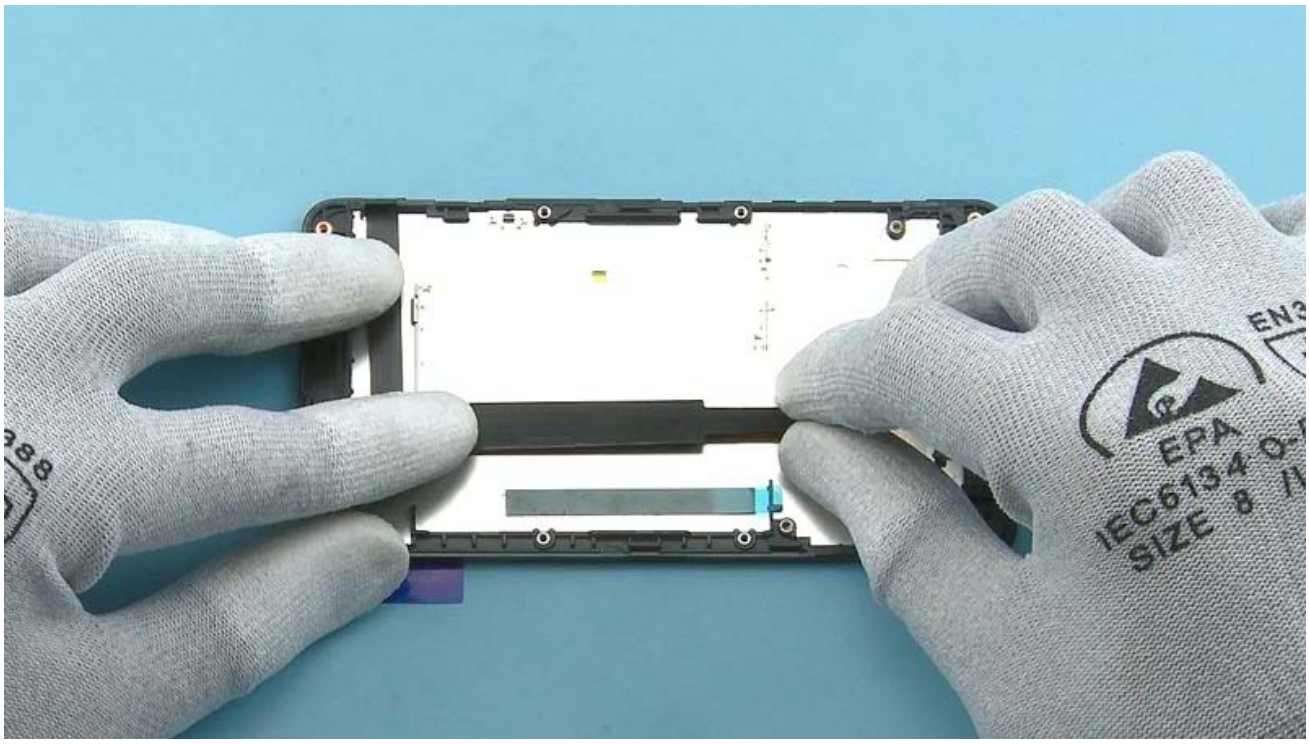
3) Guide the DISPLAY flex through the A-COVER. Be careful not to damage the DISPLAY connector or the flex.



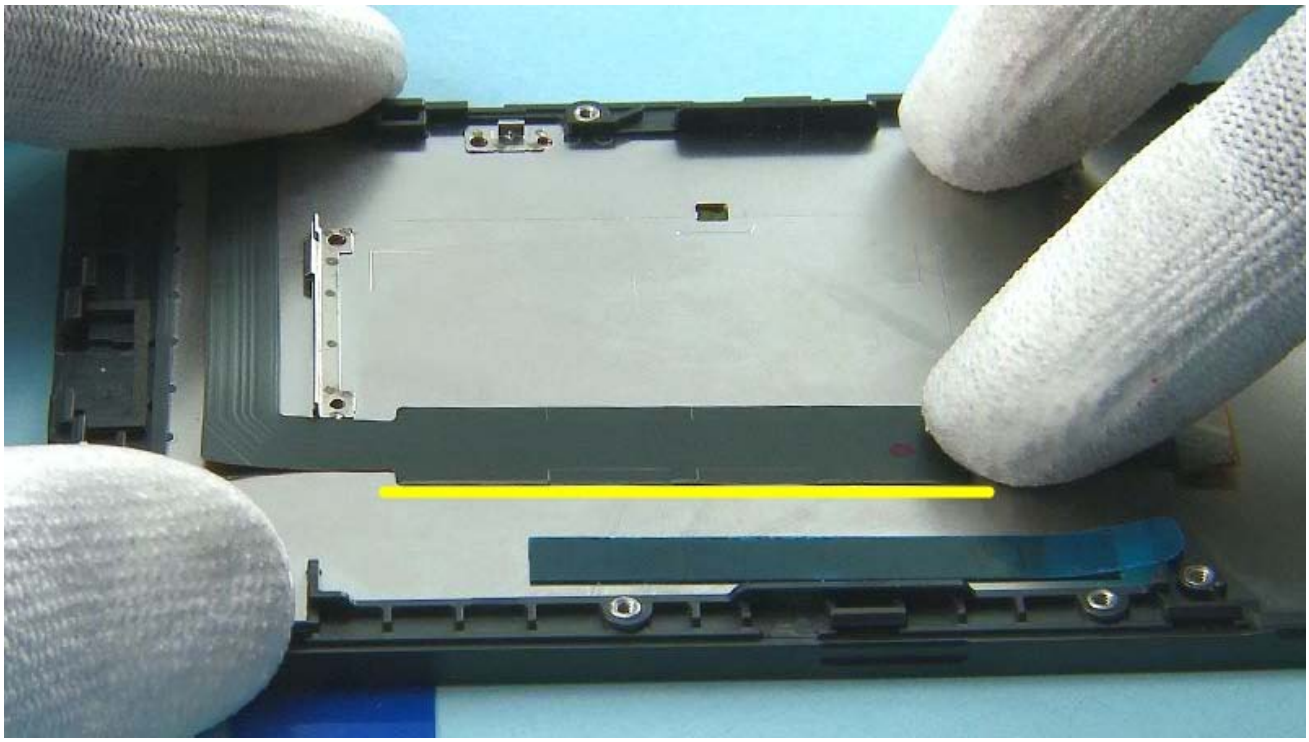
4) Place the DISPLAY on the A-COVER bottom end first and then lower down the other end.



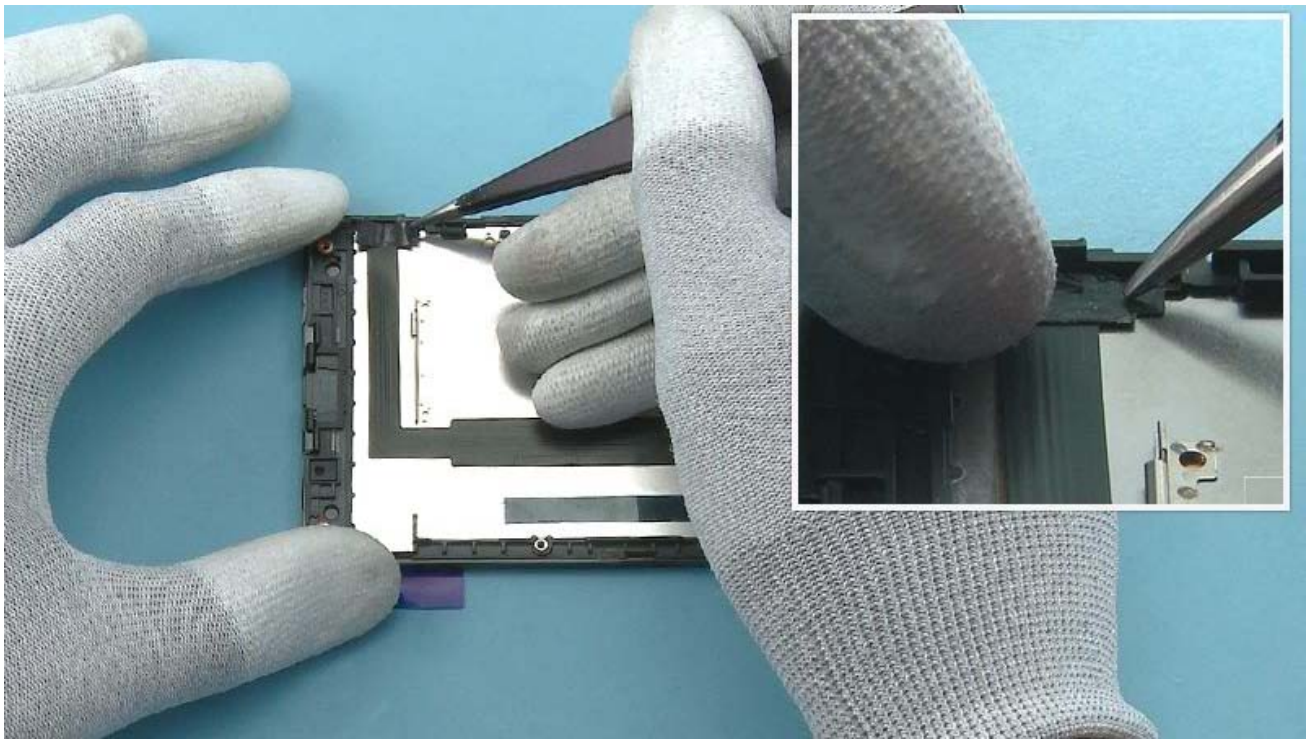
5) Peel off the DISPLAY FLEX ADHESIVE protective film.



6) Attach the DISPLAY flex to the A-COVER.



7) Use the guiding lines on the A-COVER to get the right alignment. Press firmly to activate the adhesive.

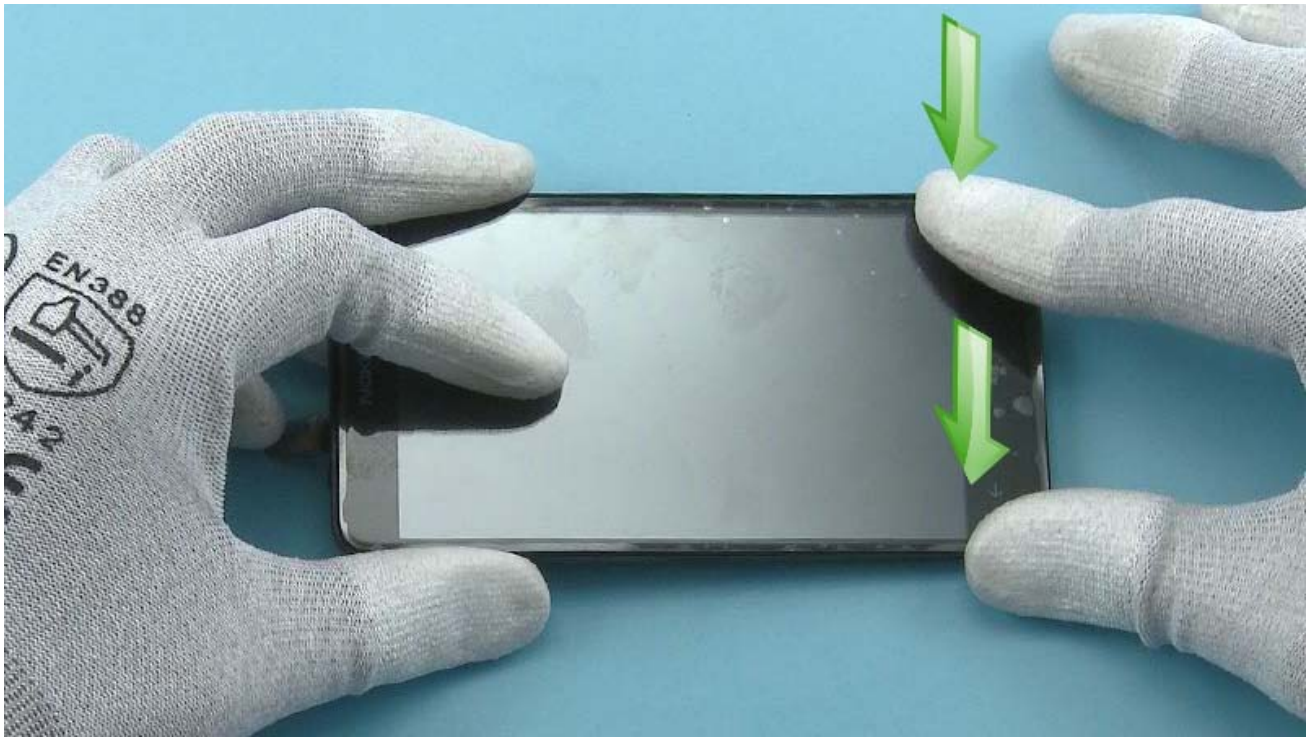


8) Place the DISPLAY MYLAR to its place.

9) Remove the protective film from the inner side of the TOUCH PANEL.

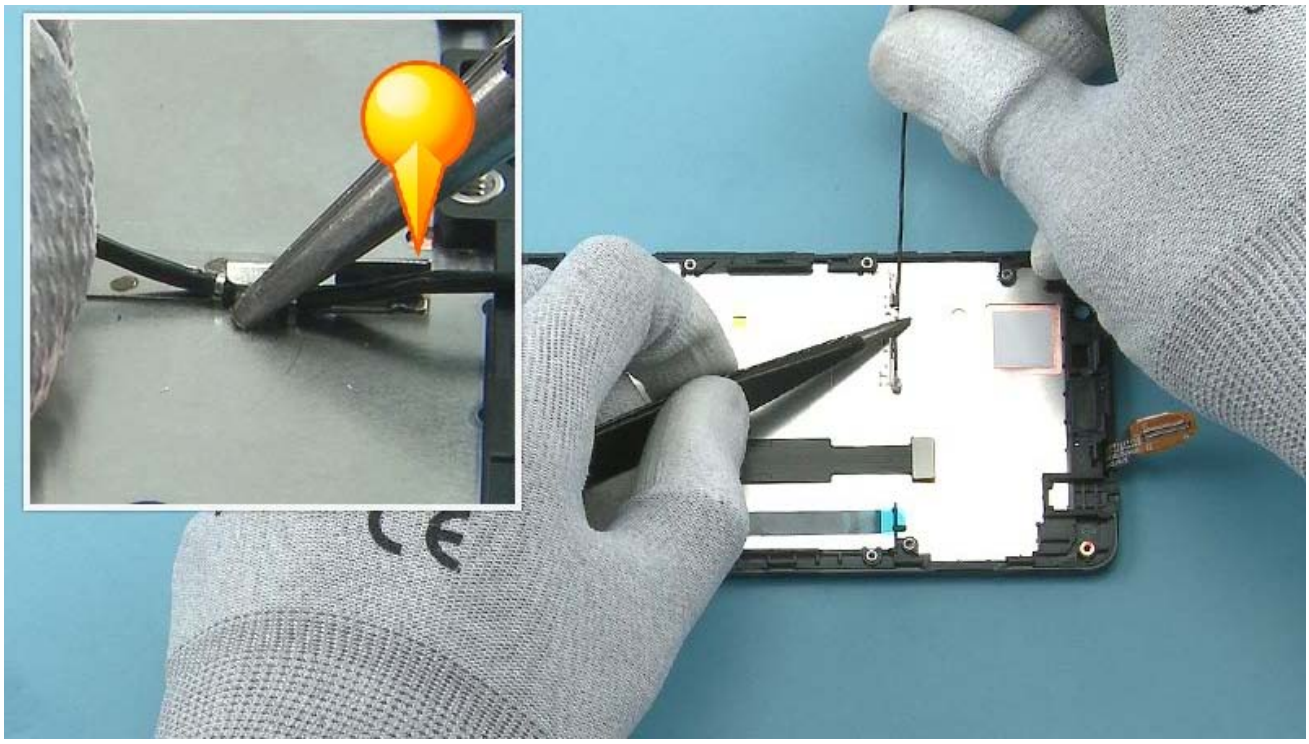
10) Remove the DISPLAY protective film.

11) Assemble the TOUCH PANEL to the A-COVER top end first. Be careful not to damage the TOUCH PANEL connector when guiding it through the A-COVER.

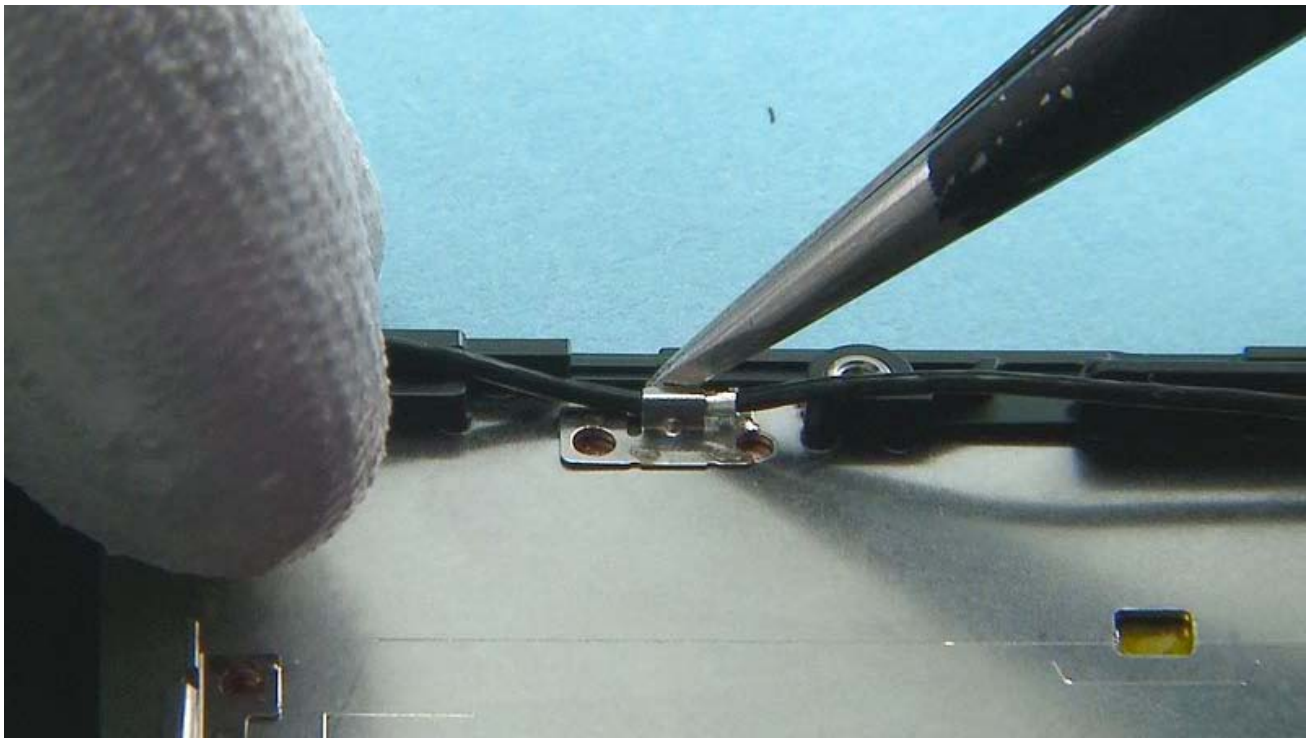


12) Lower down the bottom end of the TOUCH PANEL.

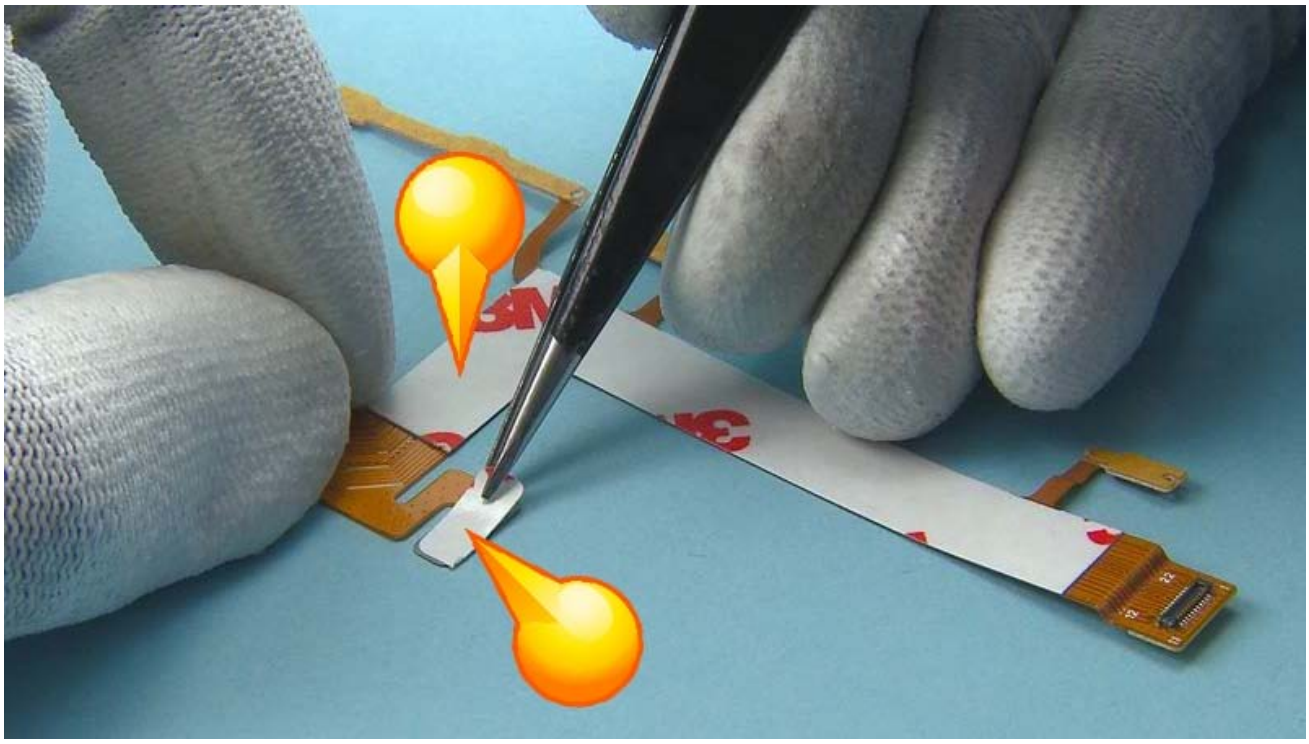
13) Press around the device to get the TOUCH PANEL firmly attached.



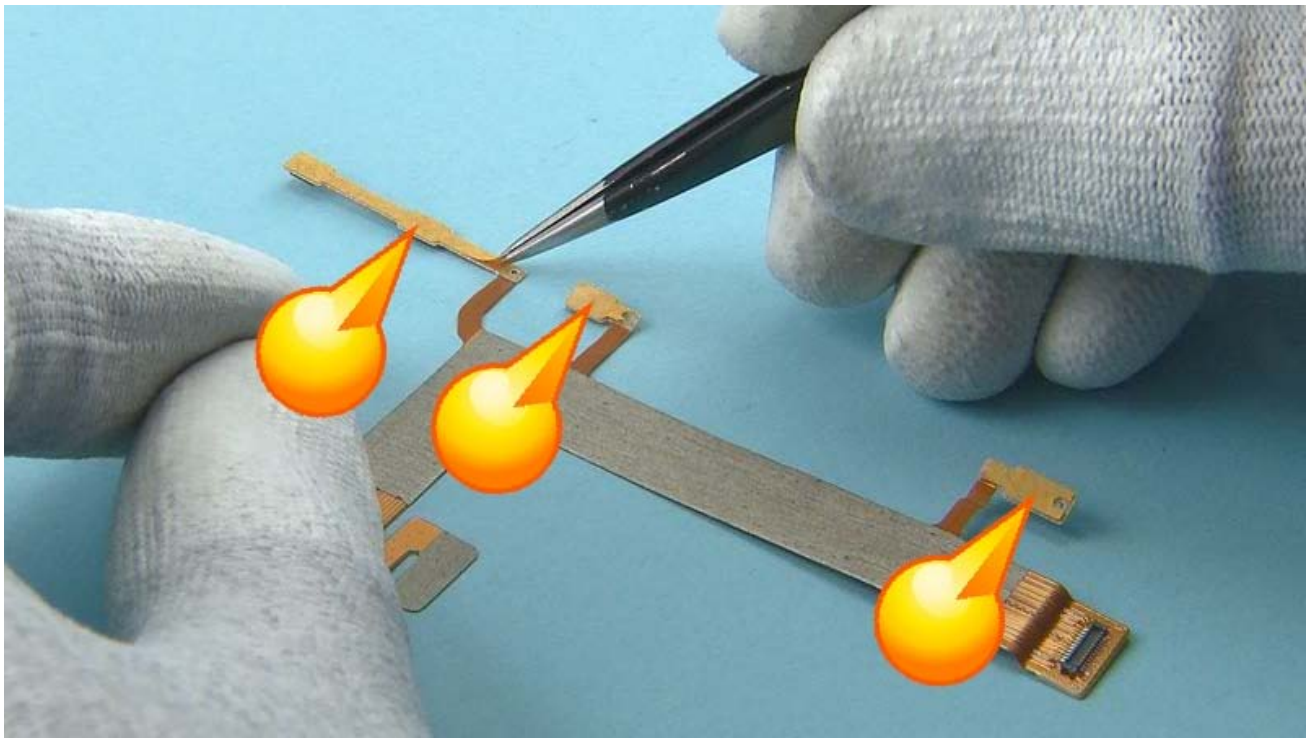
14) Assemble the RF CABLE to the A-COVER. Attach the metal sheet of the RF CABLE to the metal holder on the A-COVER. Make sure the RF CABLE goes around the shown corner.



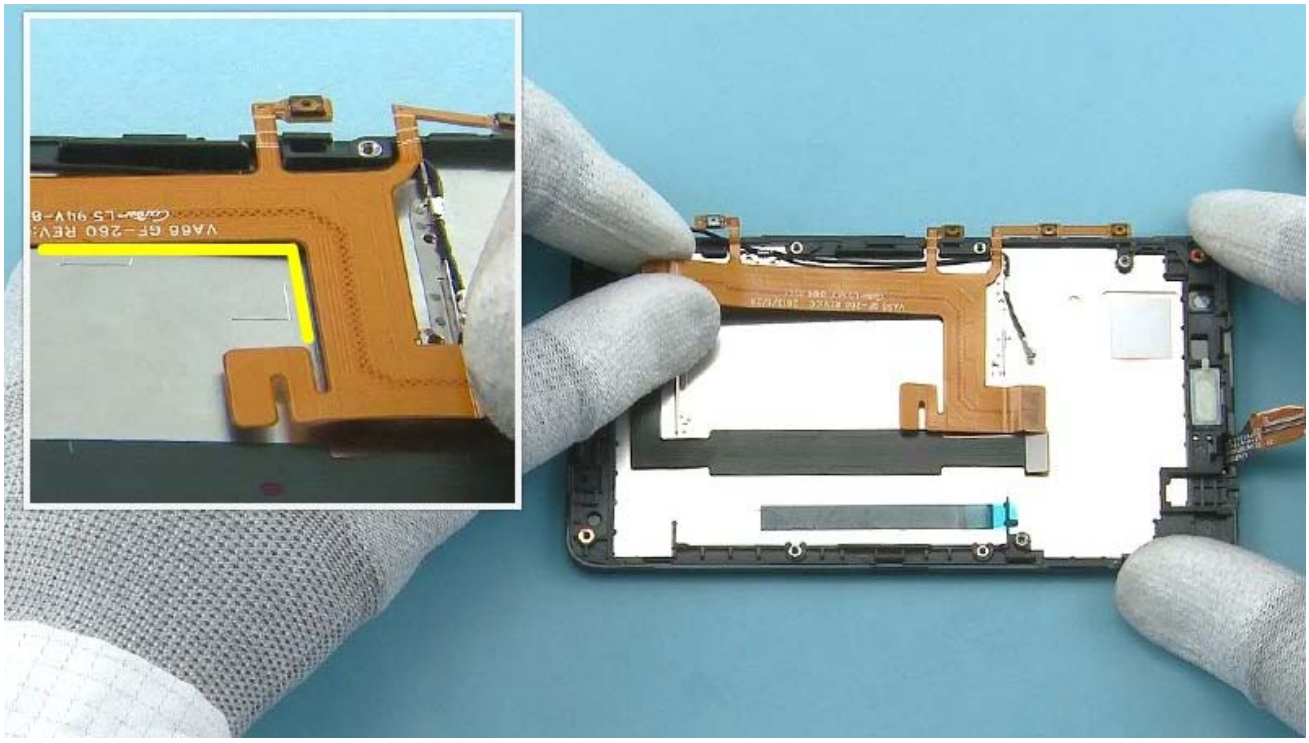
15) Attach also the other metal sheet of the RF CABLE.



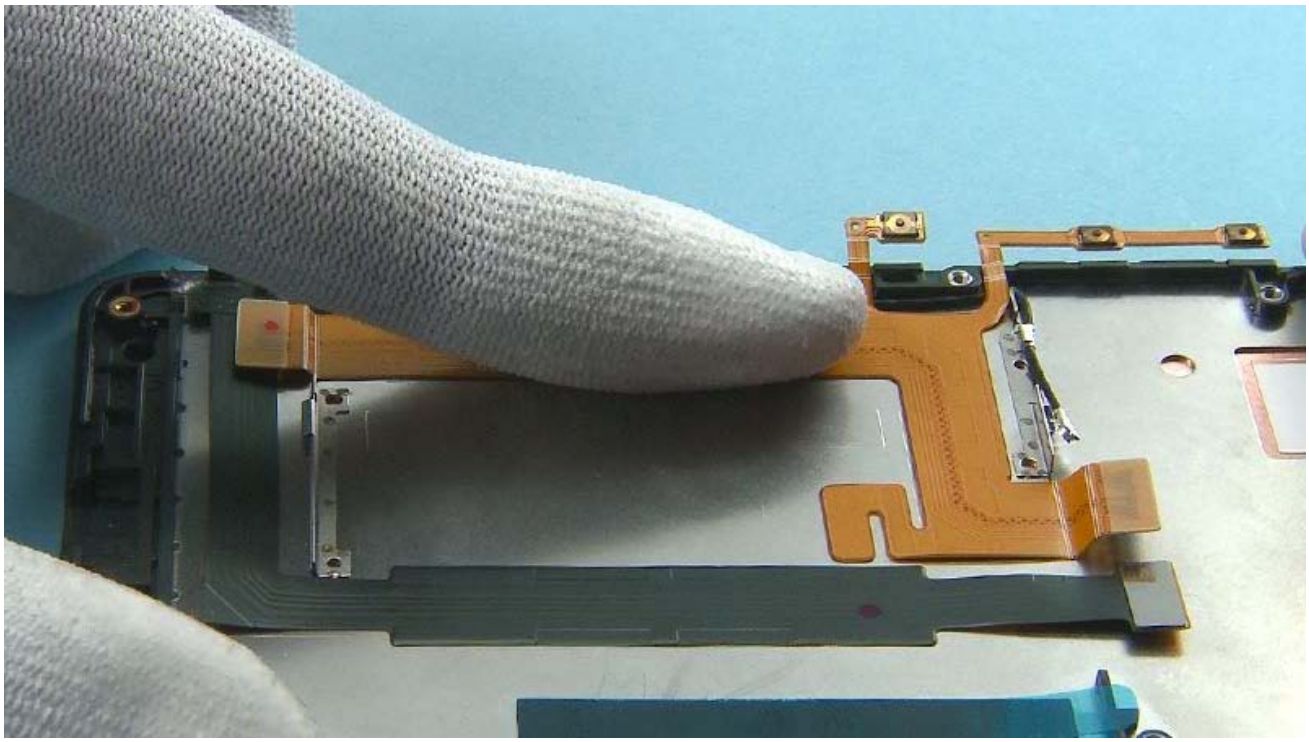
16) Remove the protective films from SIDE KEY FLEX.



17) Remove the protective films also from SIDE KEYS.

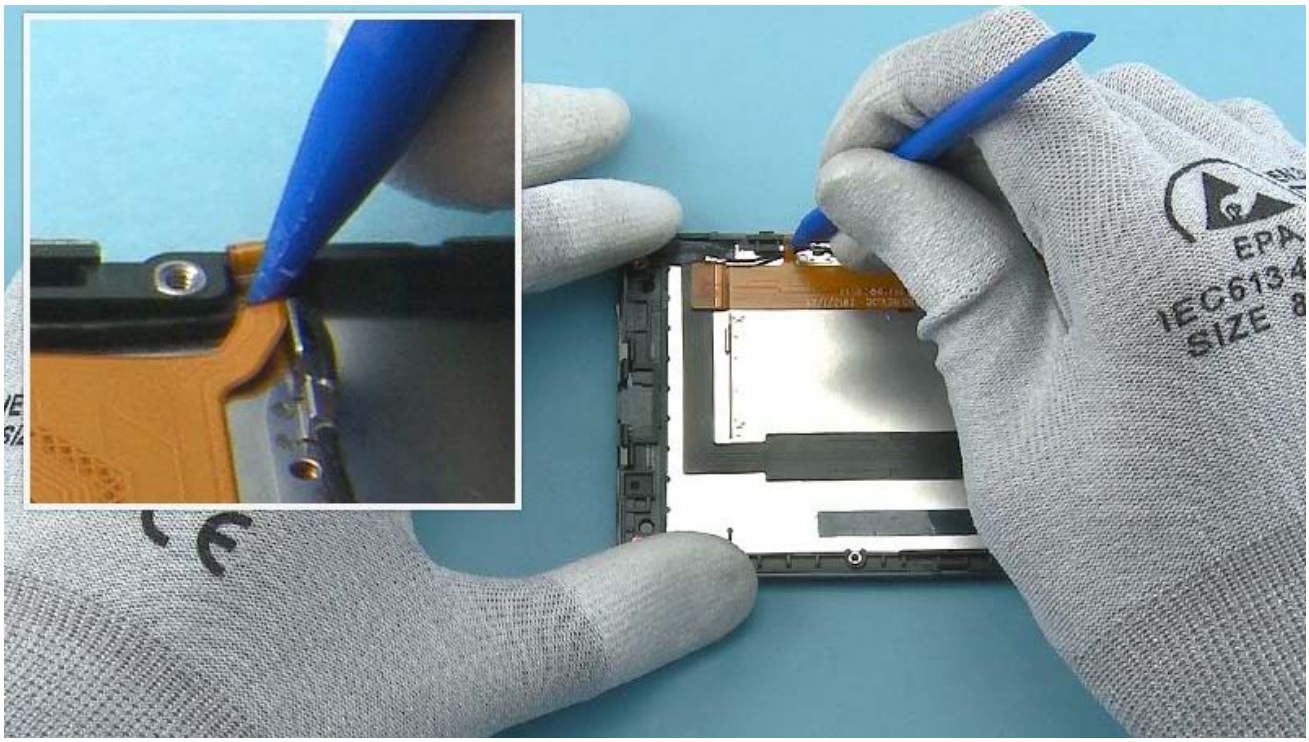


18) Attach the SIDE KEY FLEX to the A-COVER. Use the guiding lines on the A-COVER to get the right alignment.

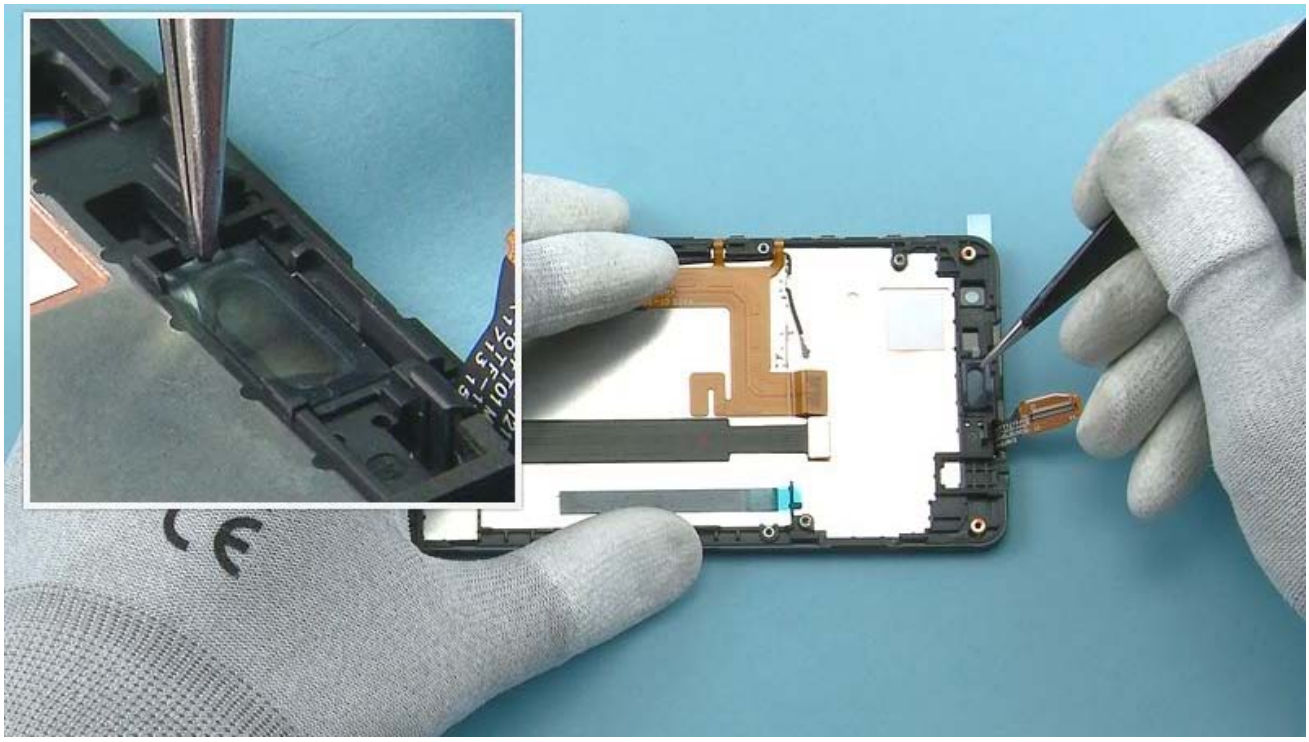


19) Press firmly to activate the adhesive.

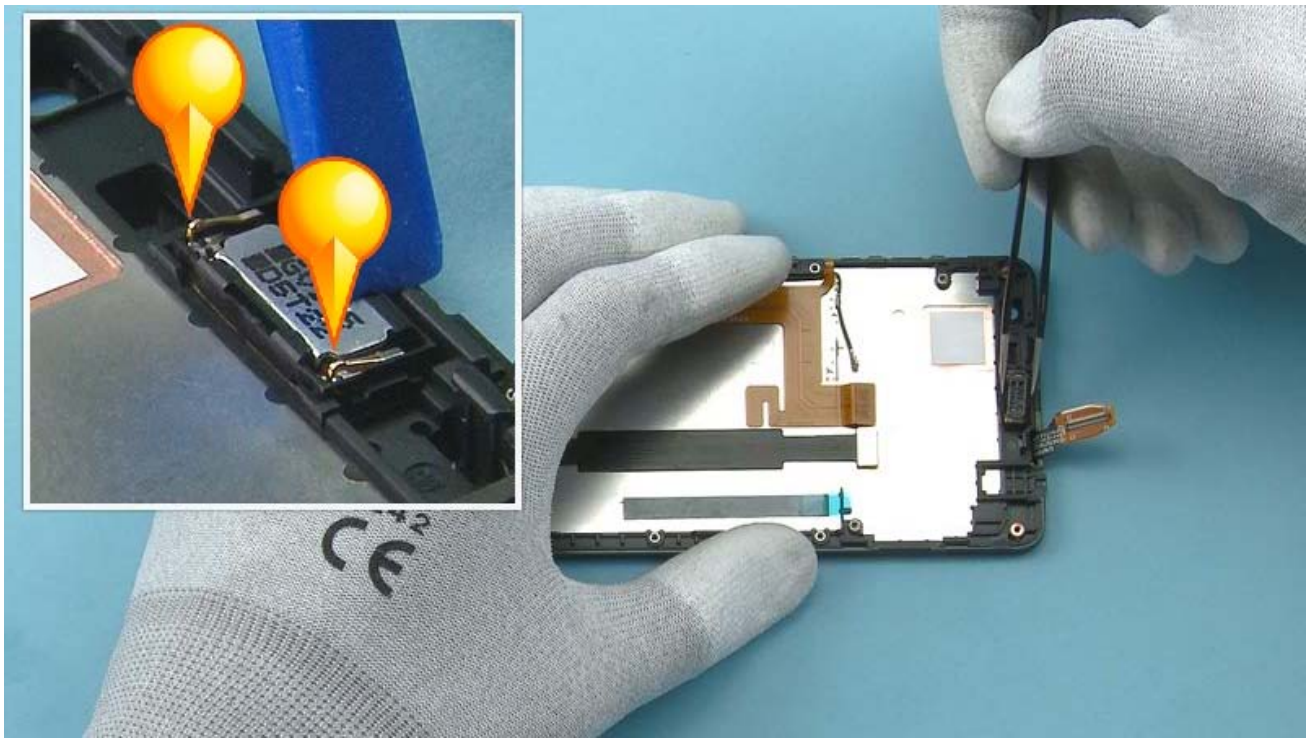
20) Then attach the SIDE KEYS to the side of the A-COVER.



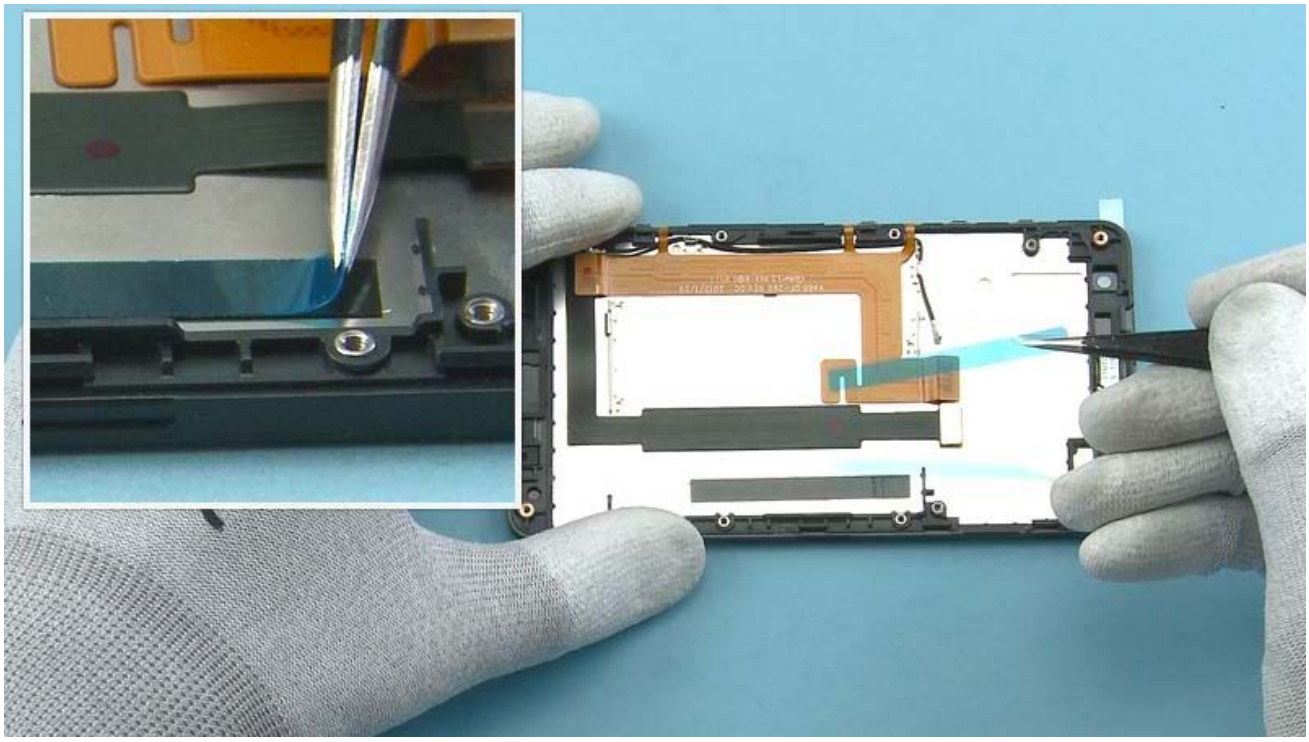
21) Use the sharp end of the SS-93 to bend the flexes as shown so that there is no extra space between the flexes and the A-COVER and the RF CABLE.



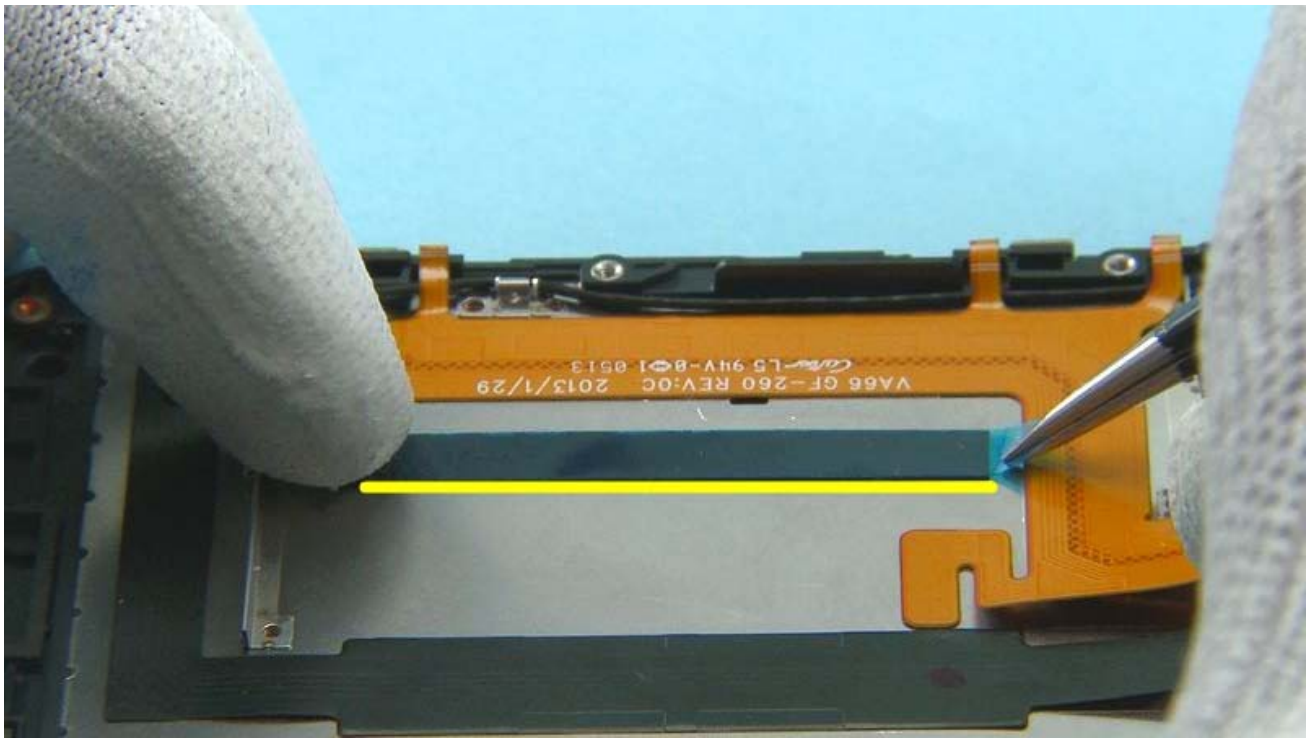
22) Remove the EARPIECE ADHESIVE protective film from the EARPIECE slot.



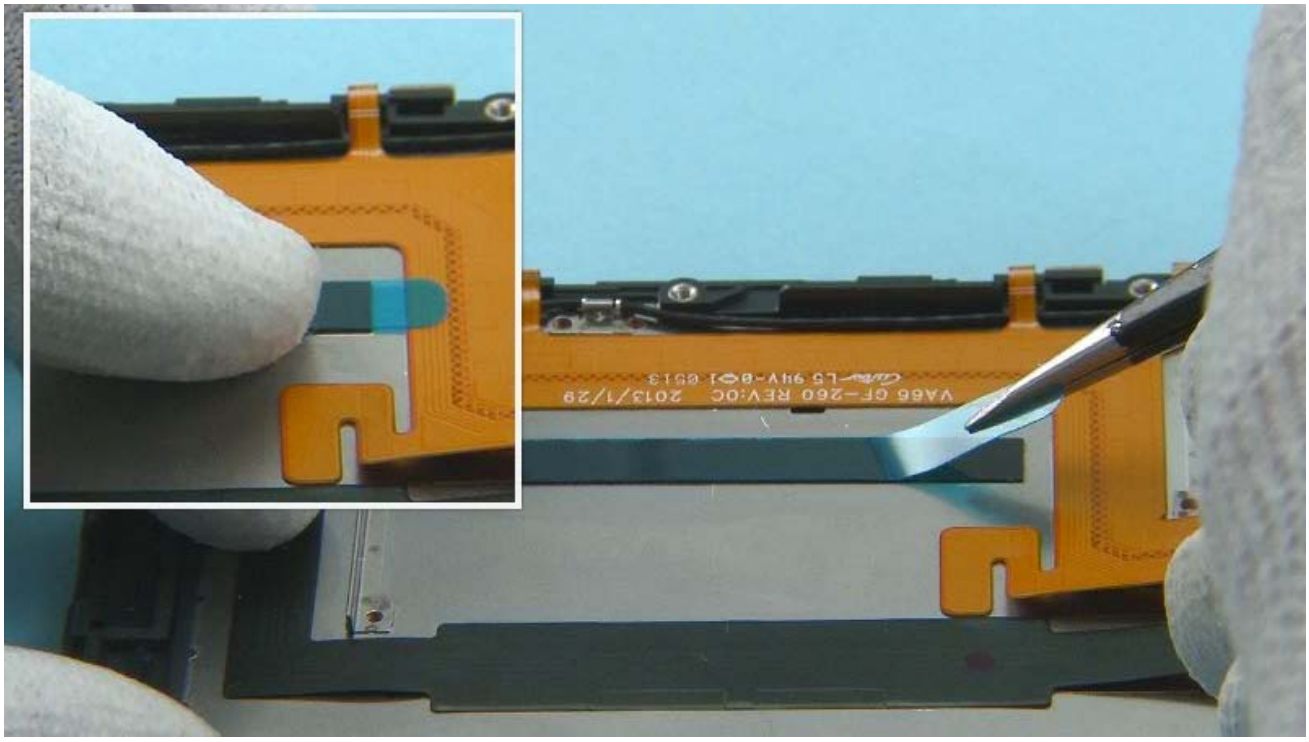
23) Place the EARPIECE to its place and press it gently. Make sure the two shown pins are facing the right way.



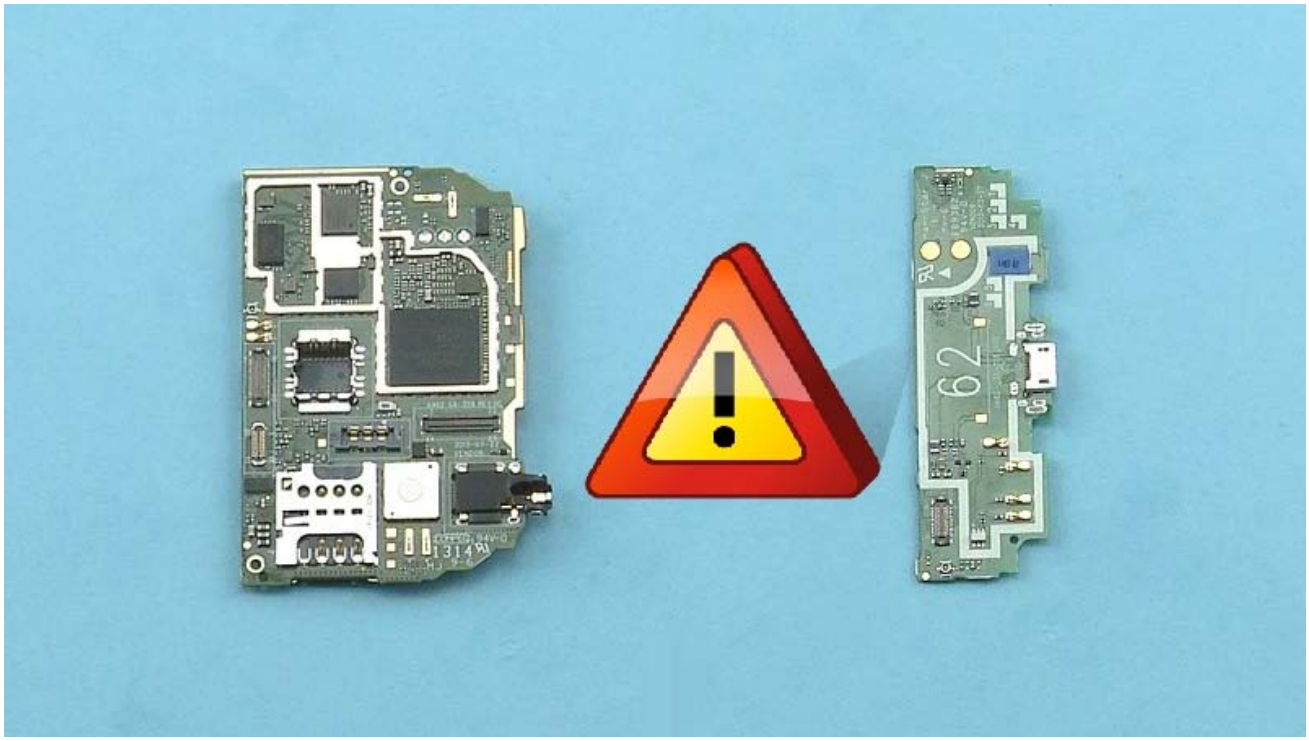
24) Peel off the BATTERY ADHESIVE protective film.



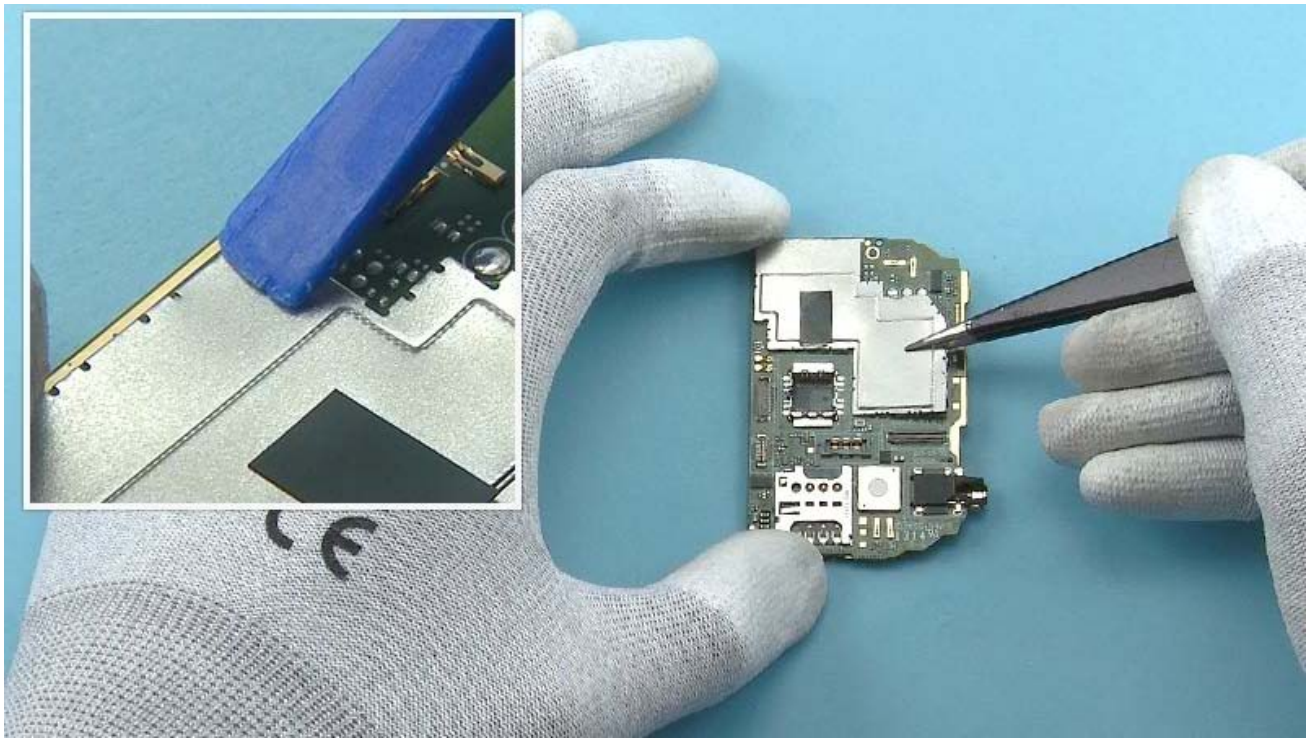
25) Place the second BATTERY ADHESIVE to the shown place. Use the guiding line on the A-COVER to get the right positioning.



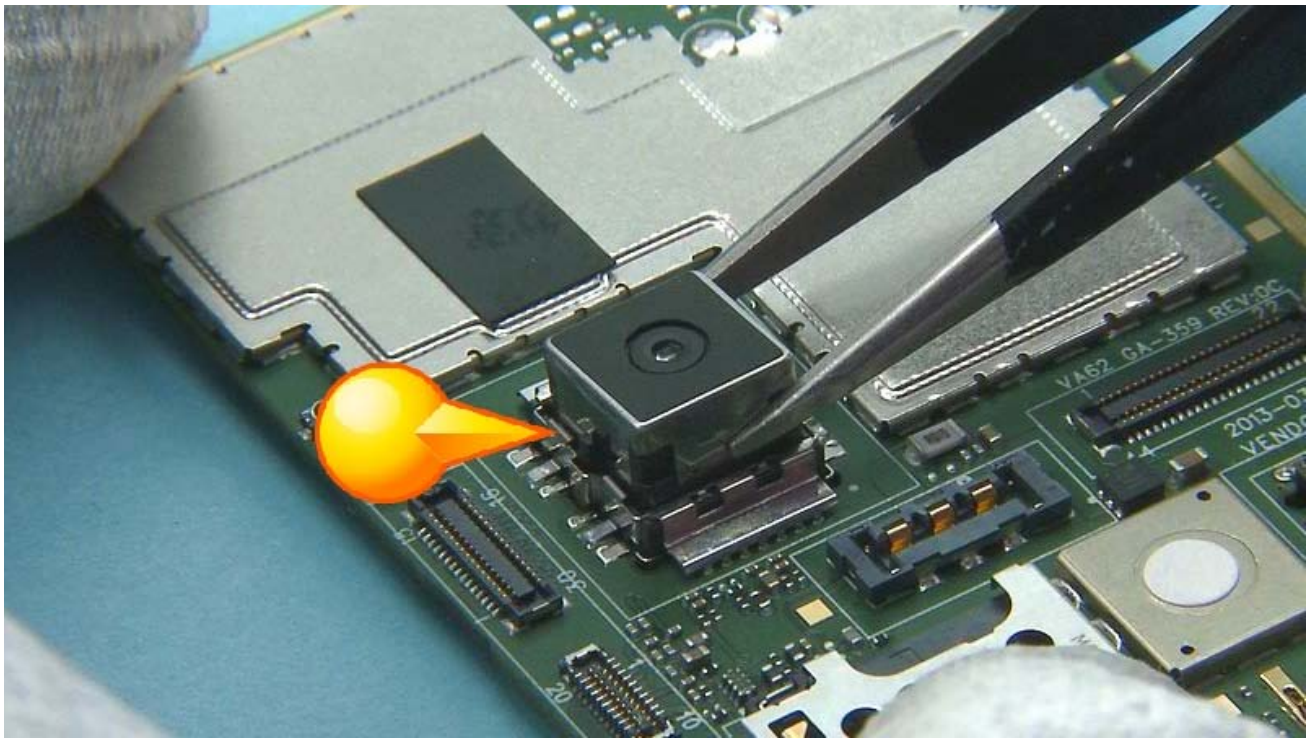
26) Press firmly and remove the protective film.



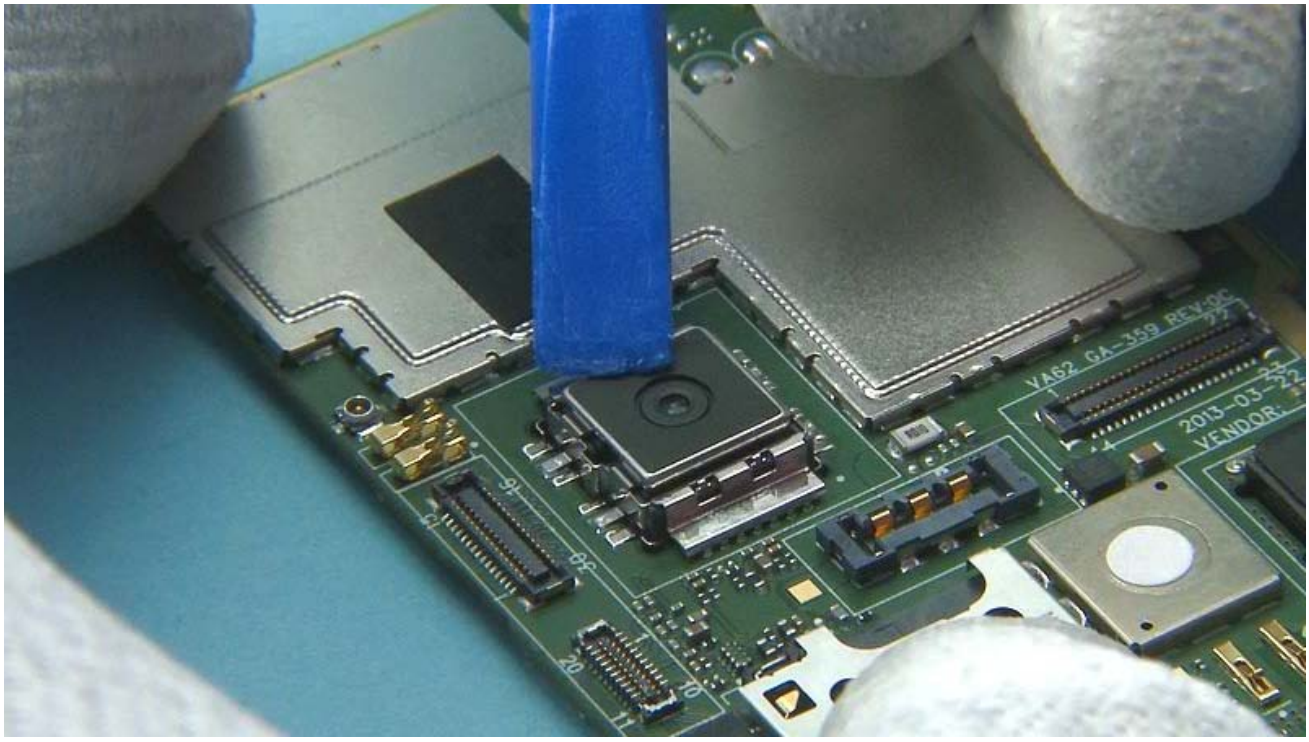
27) When assembling the ENGINE BOARD and the SUB BOARD be careful not to damage any components.



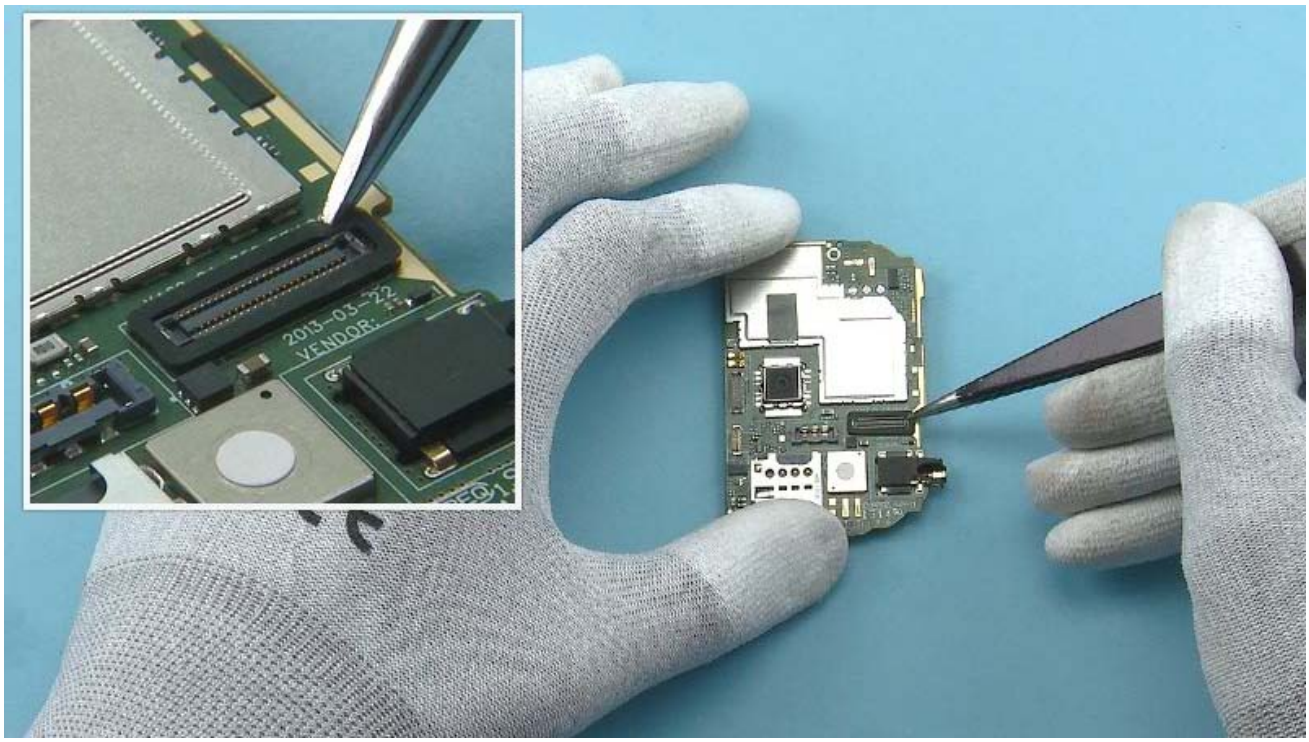
28) Place the BOTTOM SHIELDING LID to the ENGINE BOARD. Press from the sides with the SS-93 to get it properly attached.



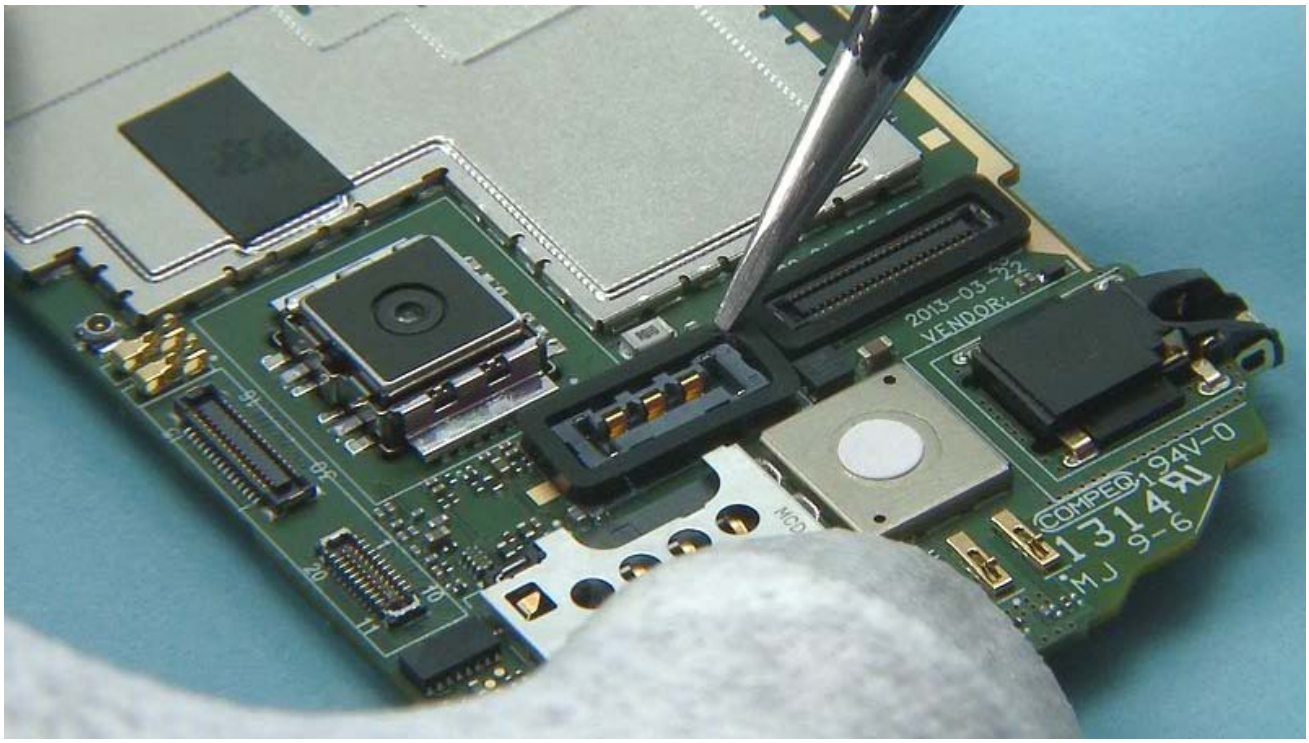
29) Place the CAMERA to the CAMERA socket with tweezers. Make sure the shown clip is facing the right way.



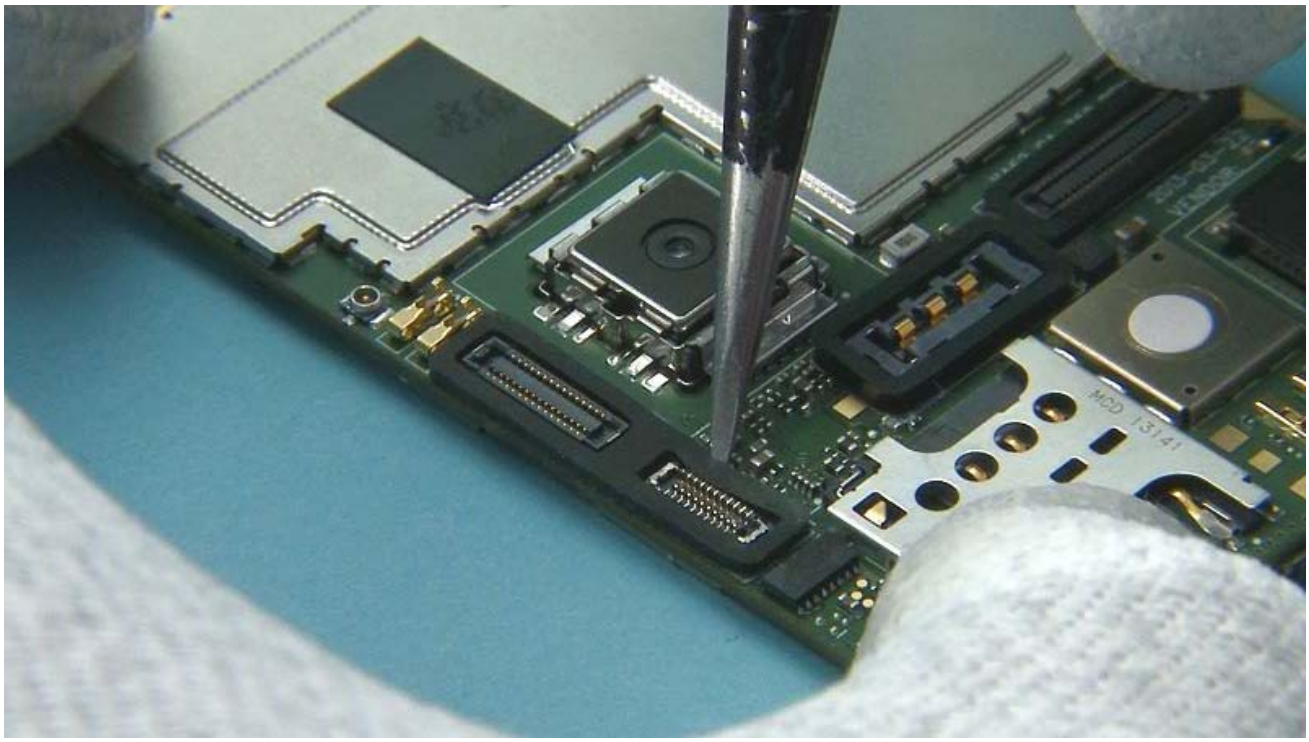
30) Carefully press the CAMERA inside the socket from the sides with the SS-93.



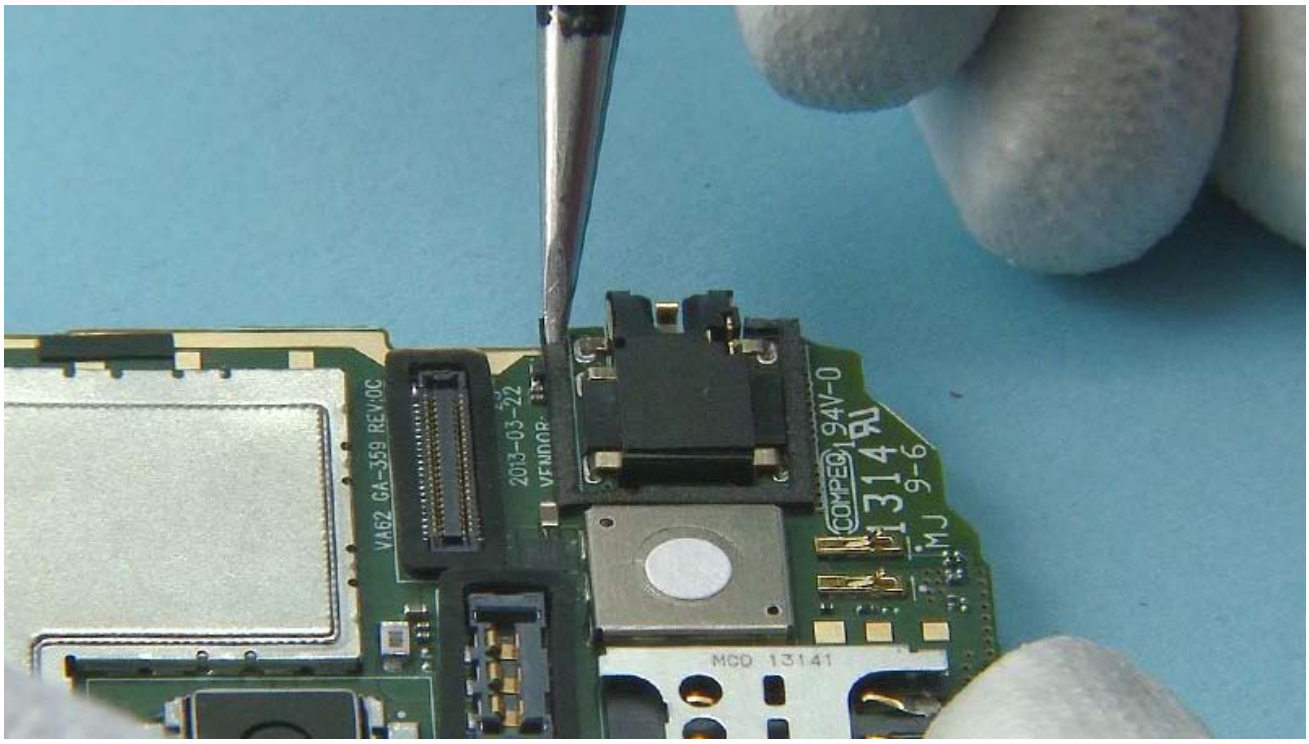
31) Place the TOUCH PANEL CONNECTOR RUBBER to its place with tweezers.



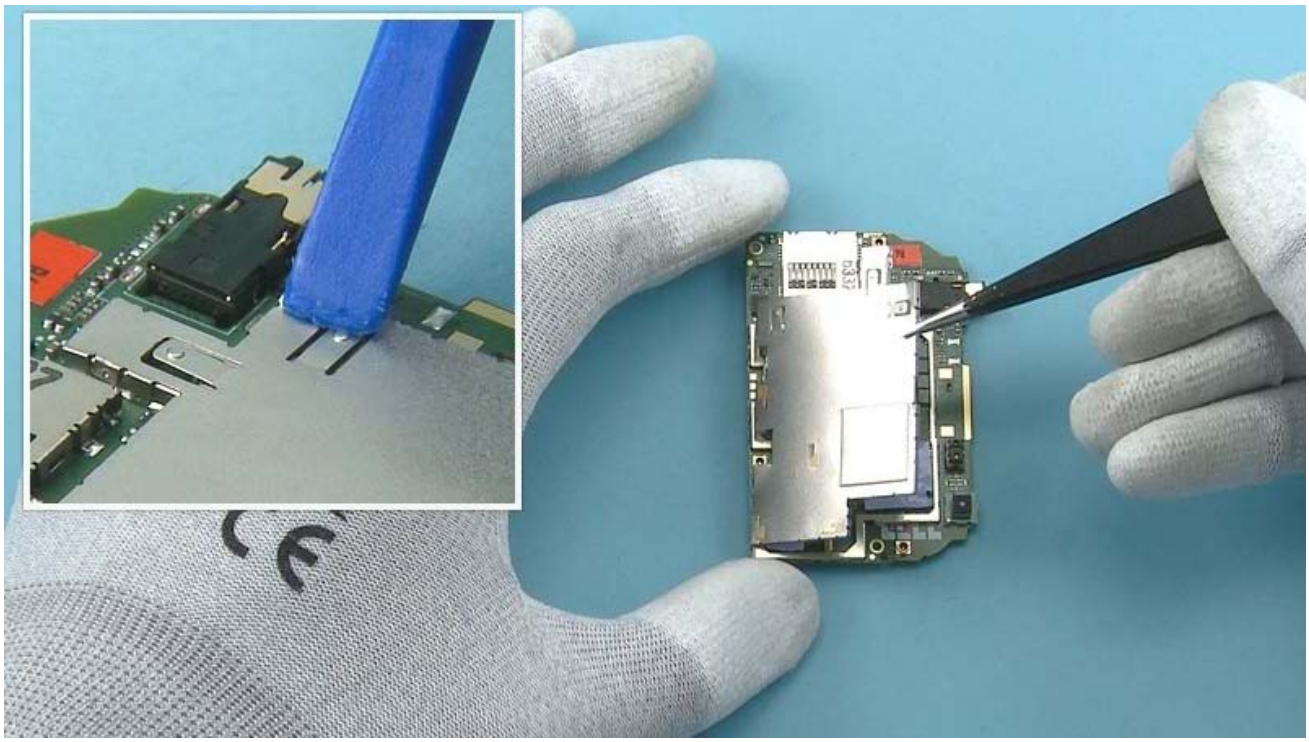
32) Place the BATTERY CONNECTOR RUBBER to its place.



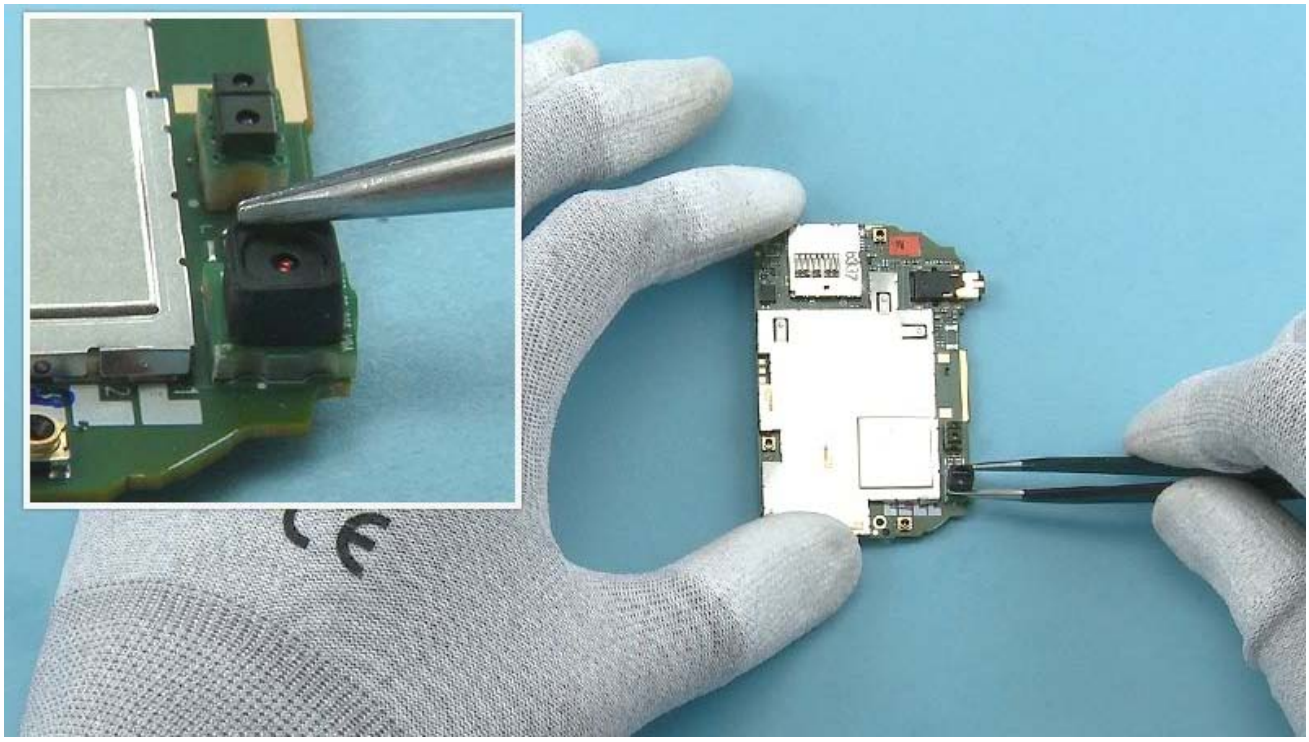
33) Place the DISPLAY AND SIDE KEY CONNECTOR RUBBER to its place.



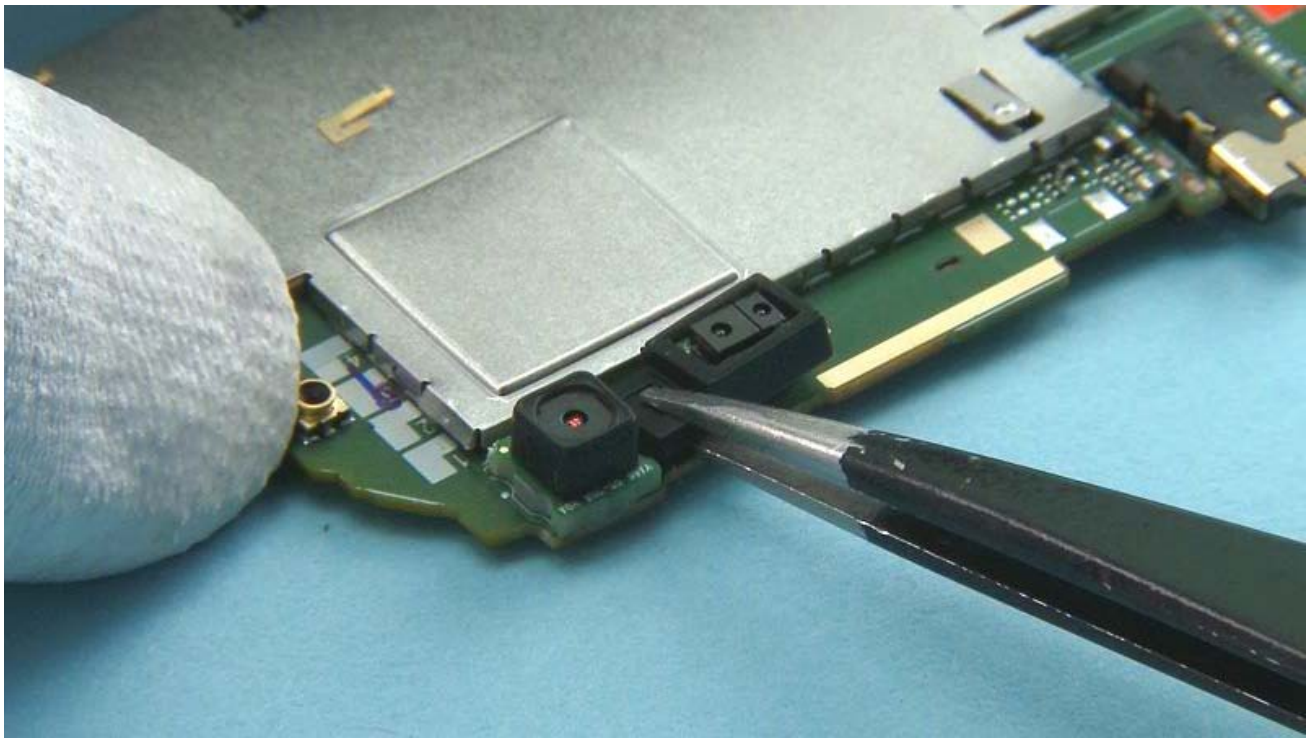
34) Place the AV CONNECTOR SPONGE to its place.



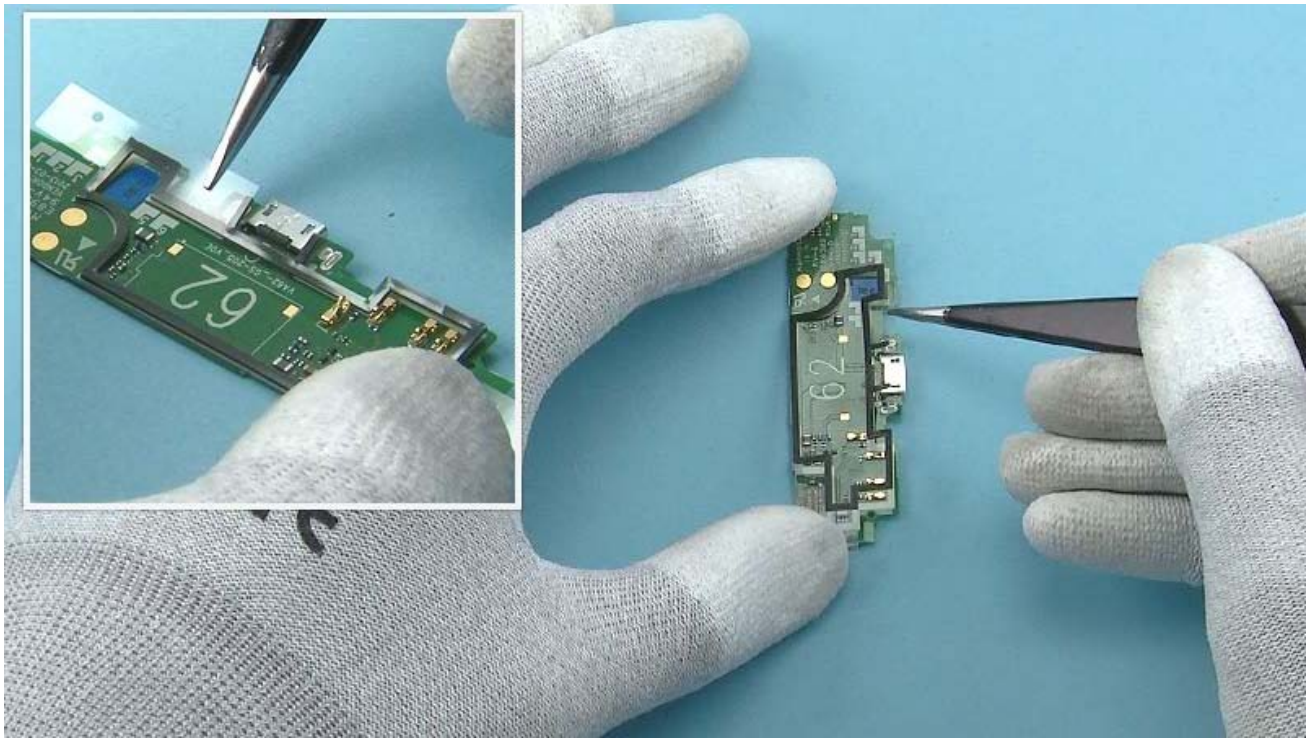
35) Place the TOP SHIELDING LID to the ENGINE BOARD. Press from the sides with the SS-93 to get it completely attached.



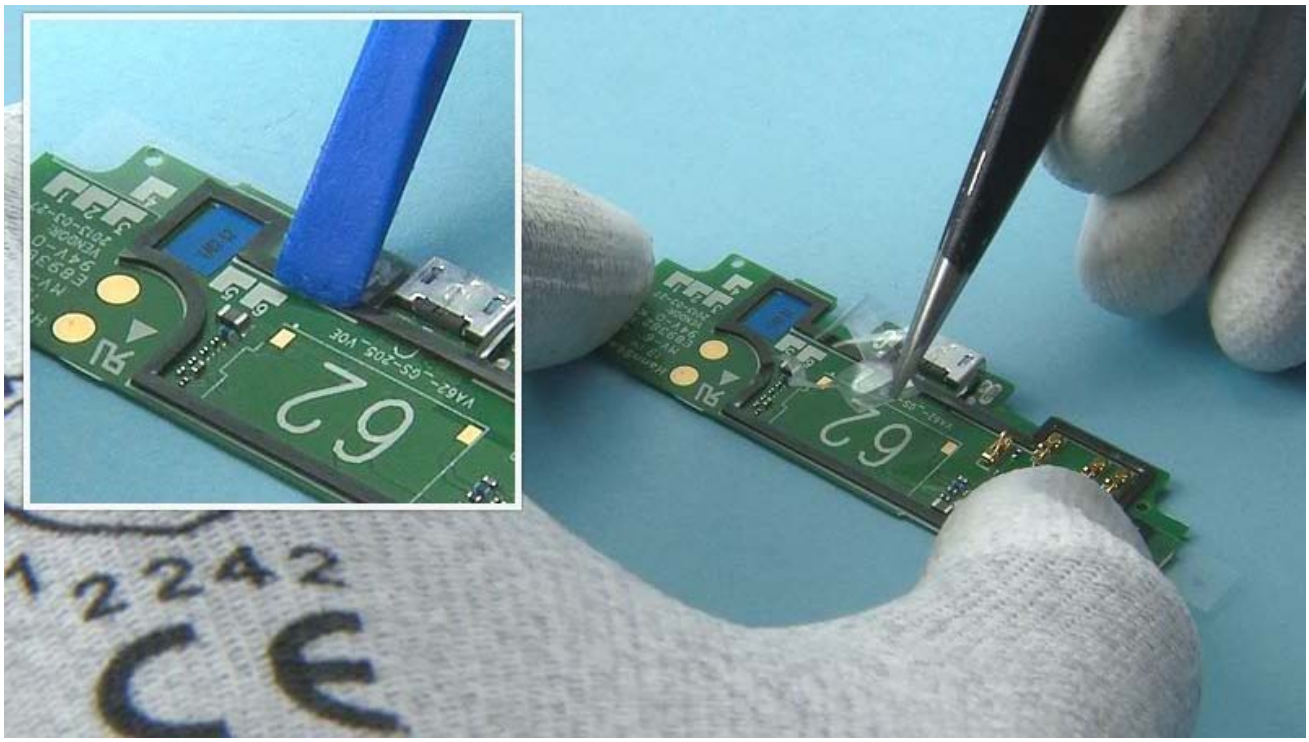
36) Place the FRONT CAMERA RUBBER to its place.



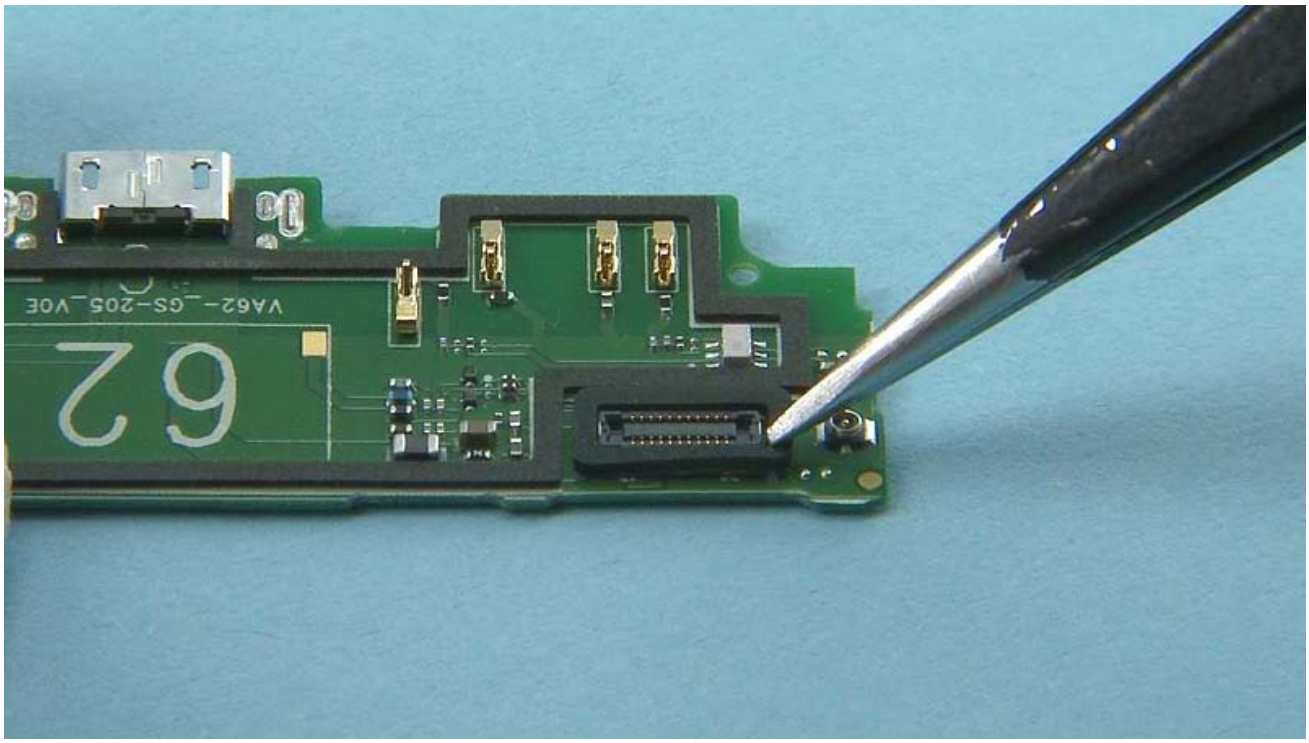
37) Place the PROXIMITY SENSOR RUBBER to its place.



38) Place the SPEAKER SEALING SPONGE on the SUB BOARD. Use the guiding lines on the SUB BOARD to get the right placement.



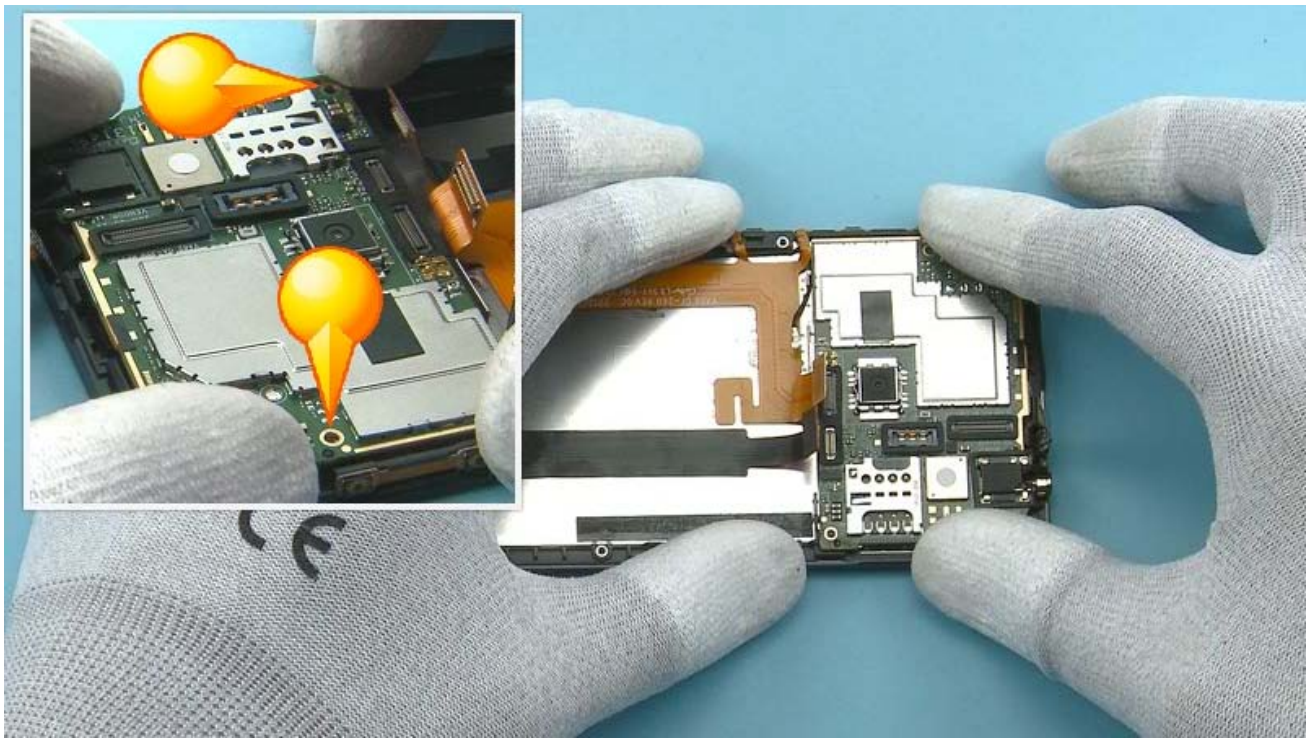
39) Press around the sponge and peel off the protective film.



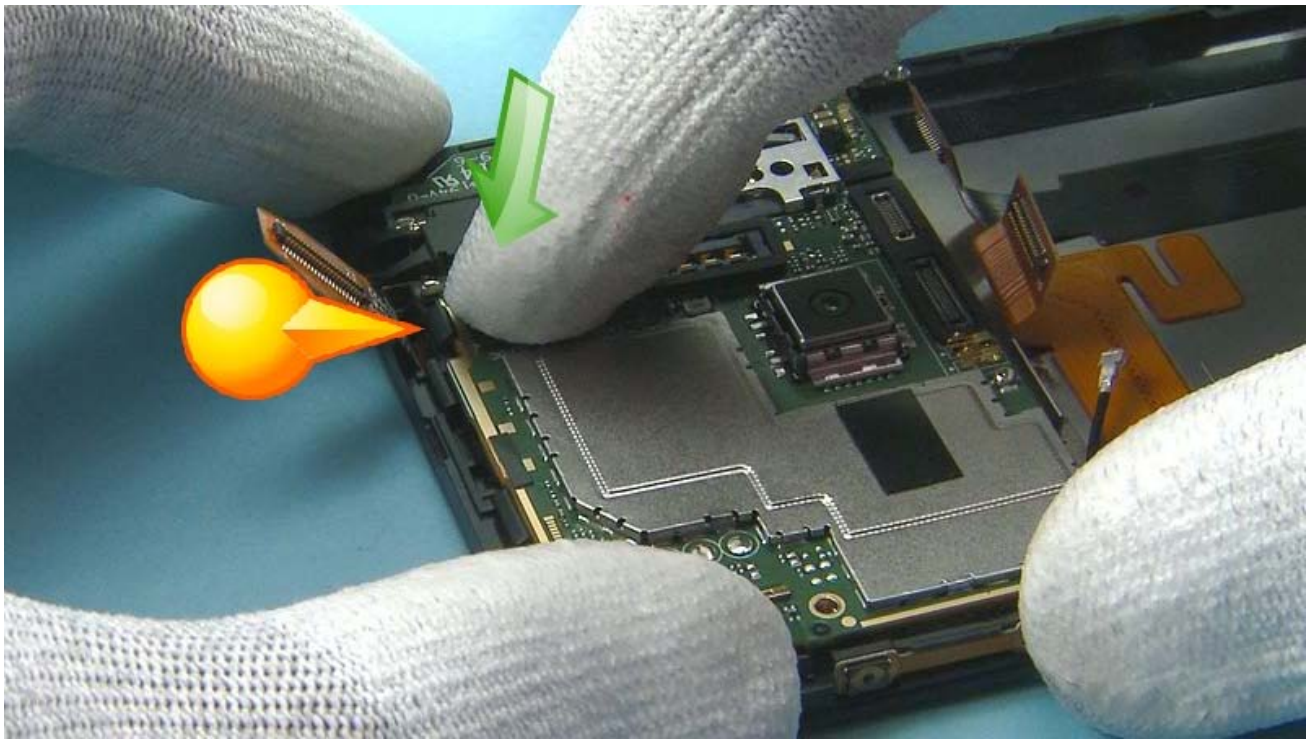
40) Place the SIDE KEY SUB BOARD CONNECTOR RUBBER to its place.

41) Assemble the SUB BOARD to the A-COVER shown side first. Press it towards the bottom of the device to attach the two shown clips.

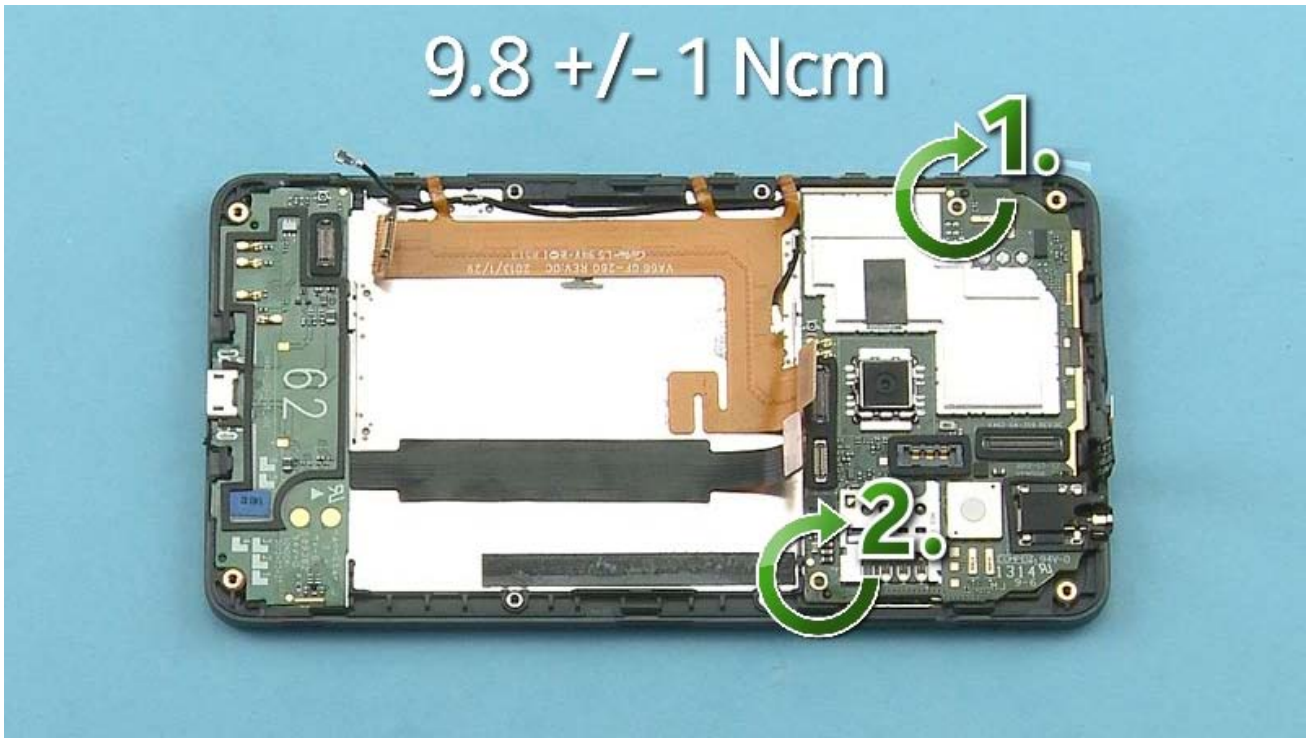
42) Then press by the connector to attach the shown clip.



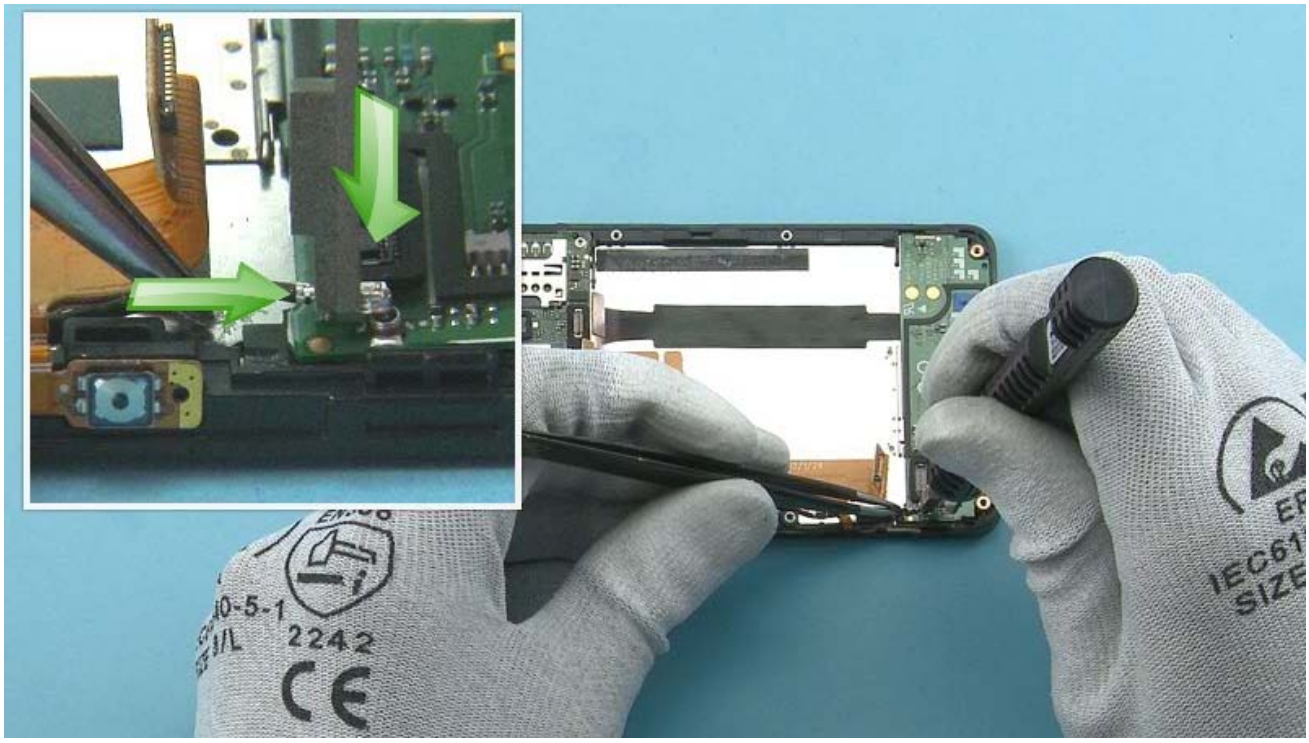
43) Place the ENGINE BOARD on the A-COVER. Align the two screw holes.



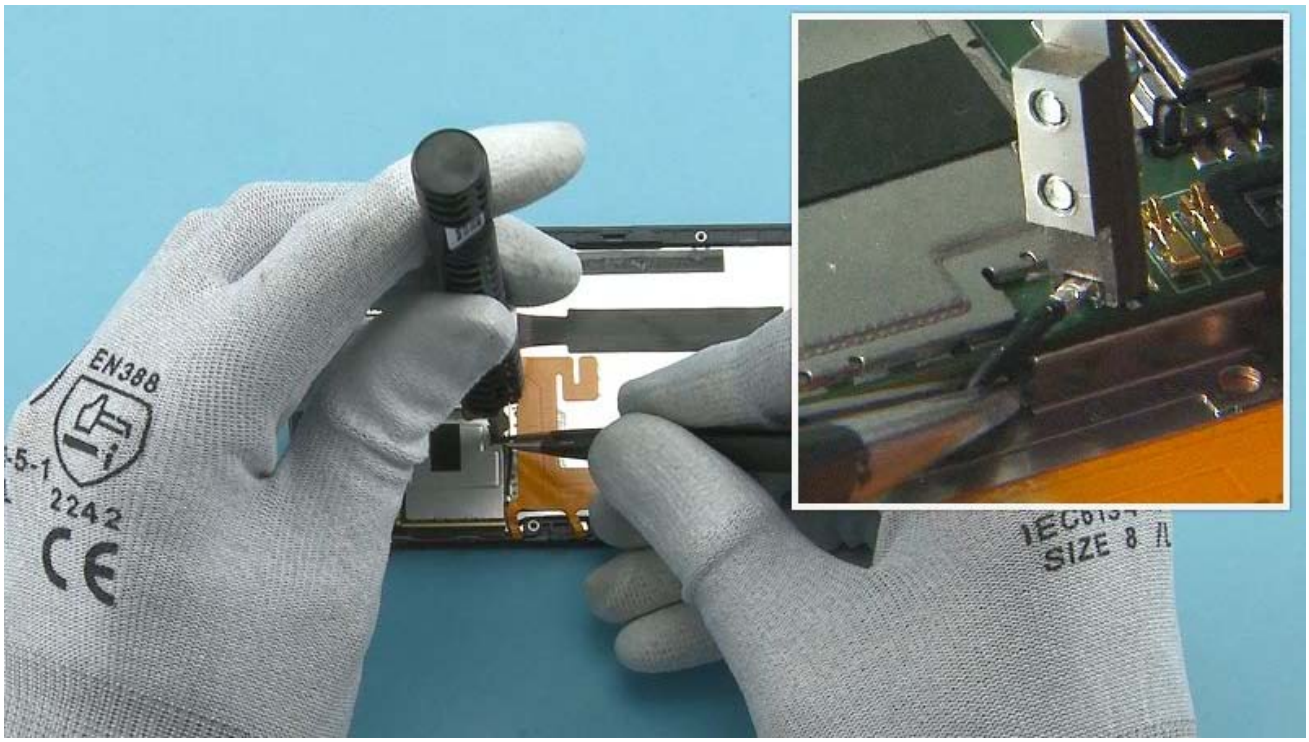
44) Press from the shown place to attach the shown clip.



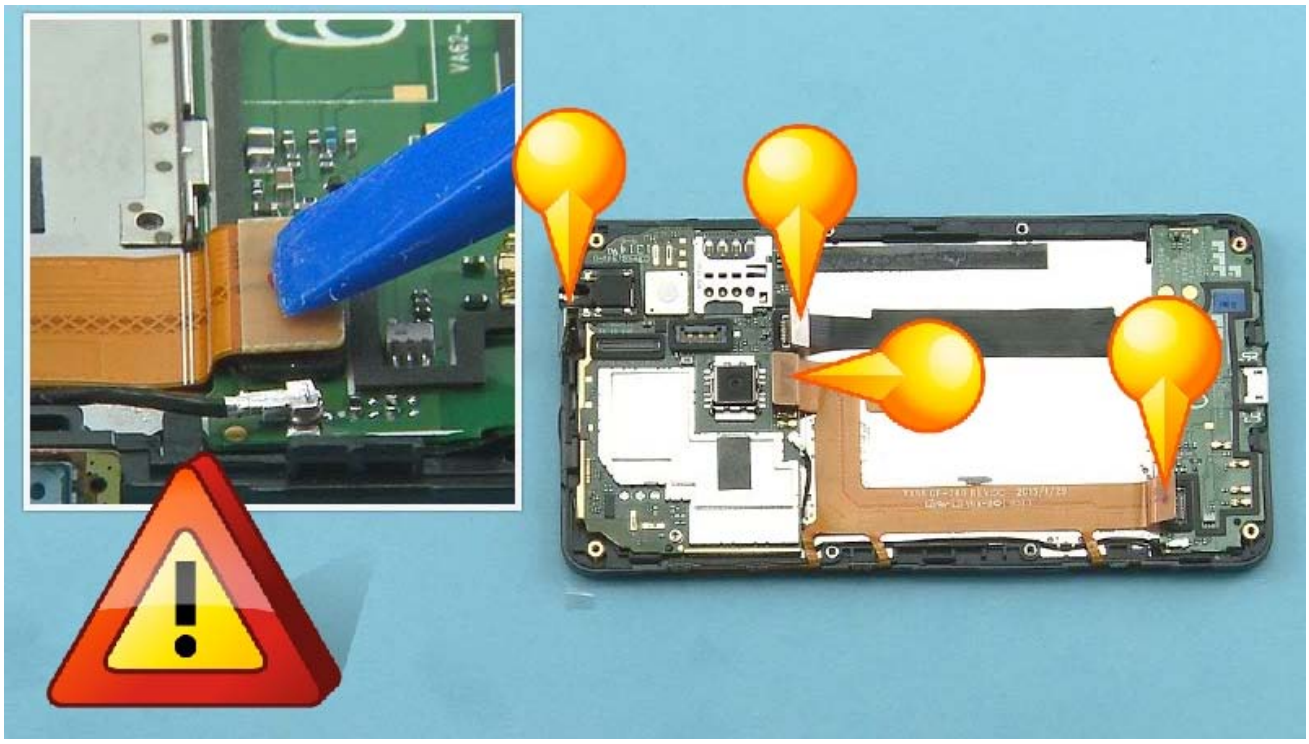
45) Fasten the two Torx+ size 5 screws in the order shown to the torque of 9.8 +/- 1 Ncm.



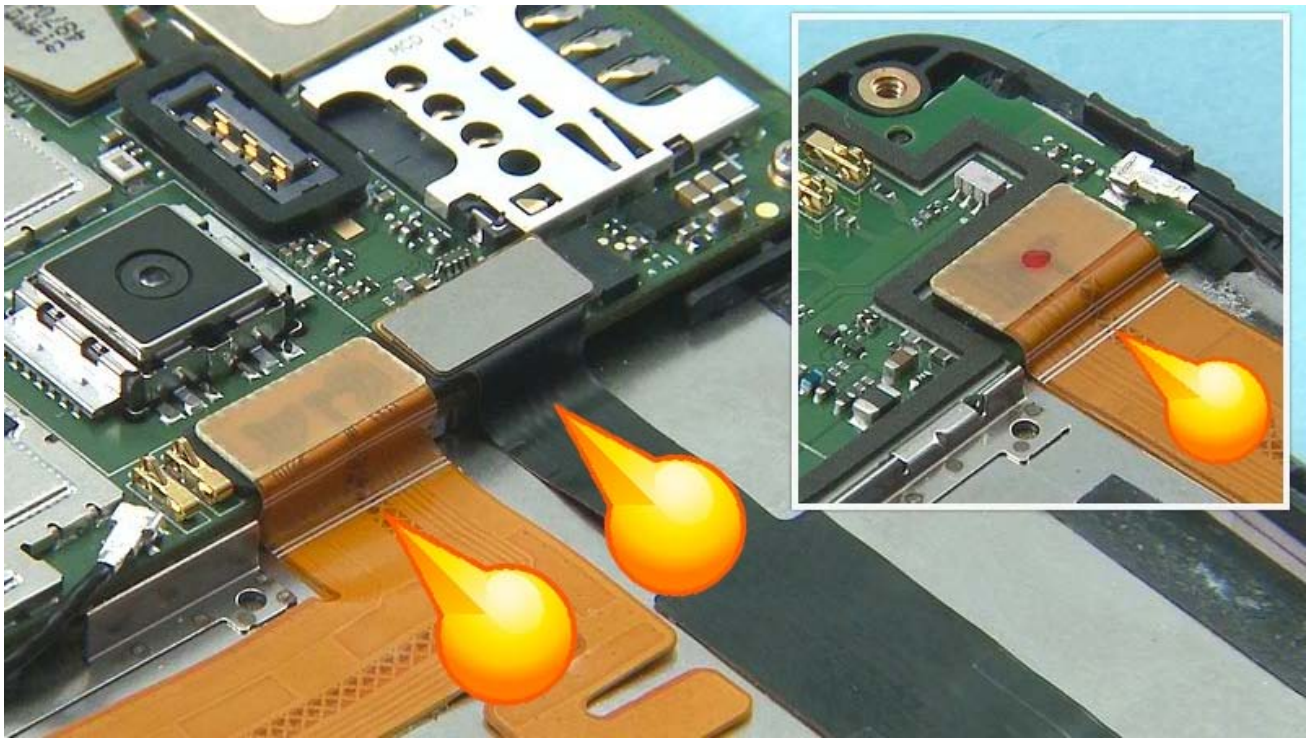
46) Connect the RF CABLE connector to the SUB BOARD with the SS-231. Lock the SS-231 to the top of the connector as shown and press down gently. Note that the SS-298 can also be used to connect the RF CABLE.



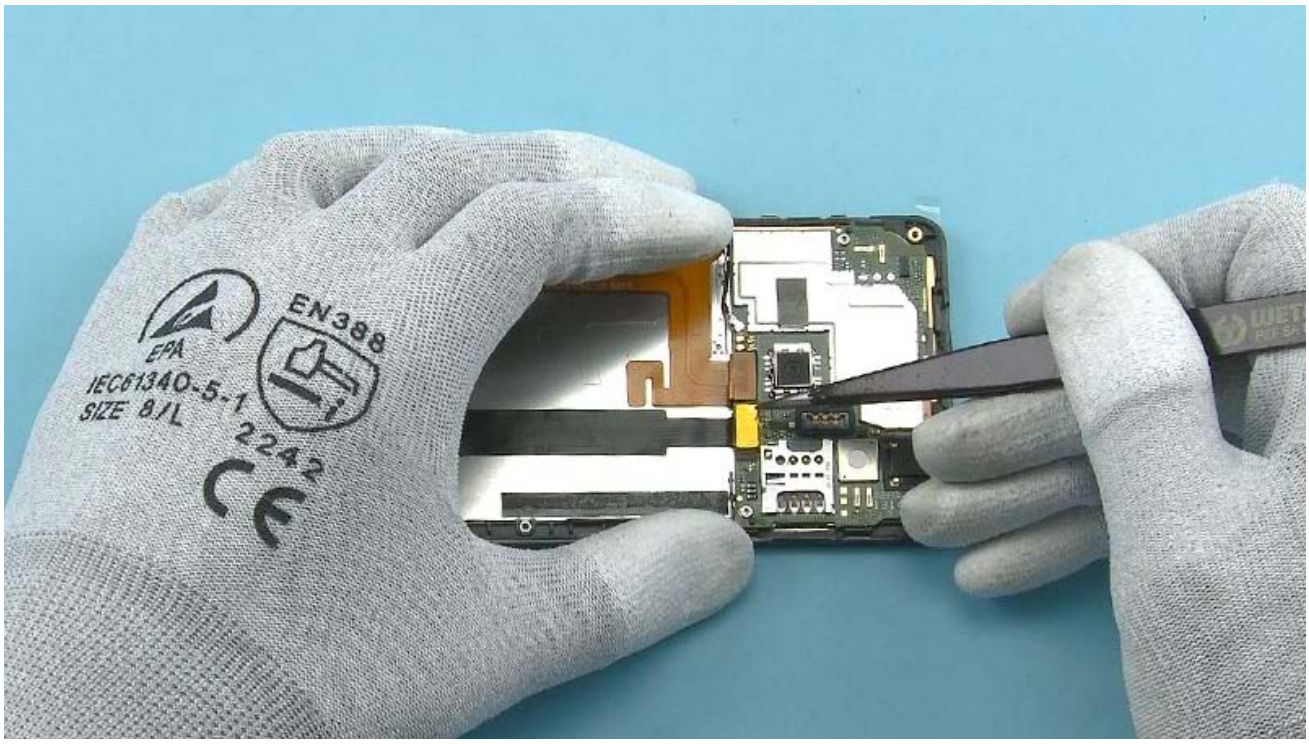
47) Connect the other end of the RF CABLE to the ENGINE BOARD.



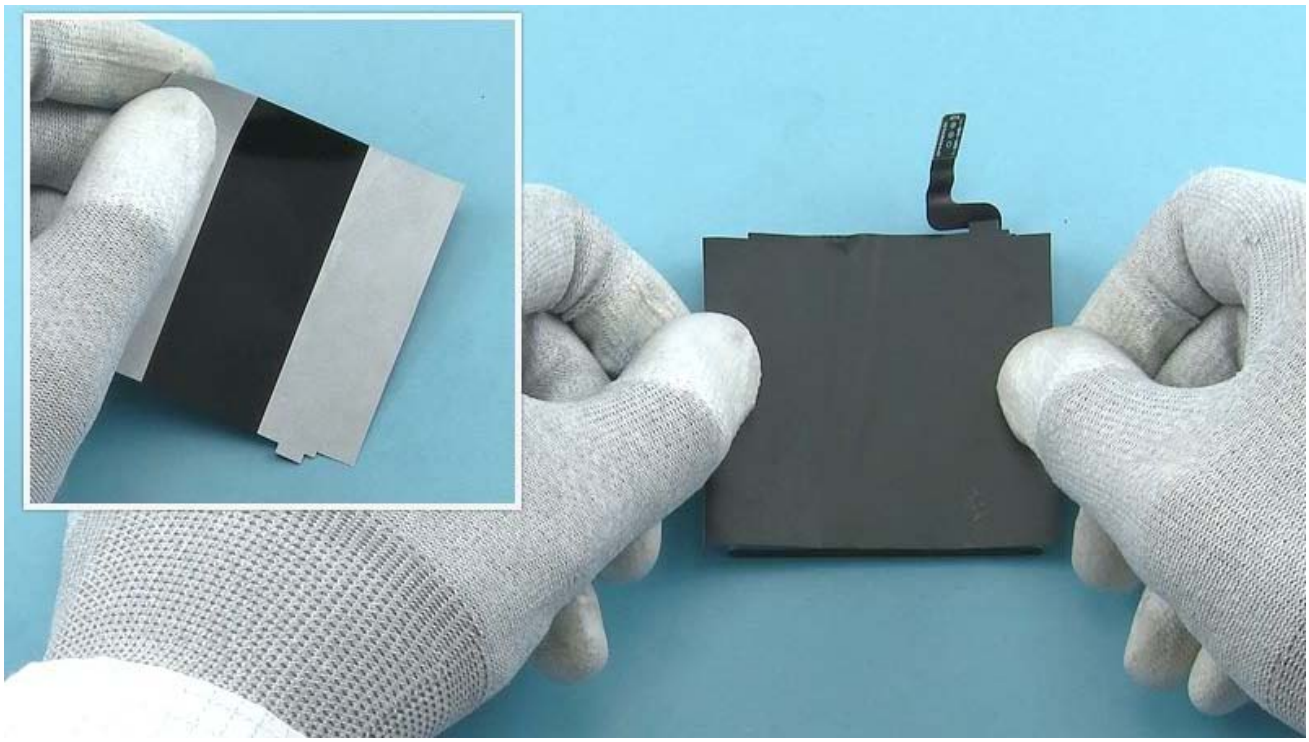
48) Connect both of the SIDE KEY FLEX connectors, then the DISPLAY connector and the TOUCH PANEL connector. Be careful not to damage the connectors or any nearby components.



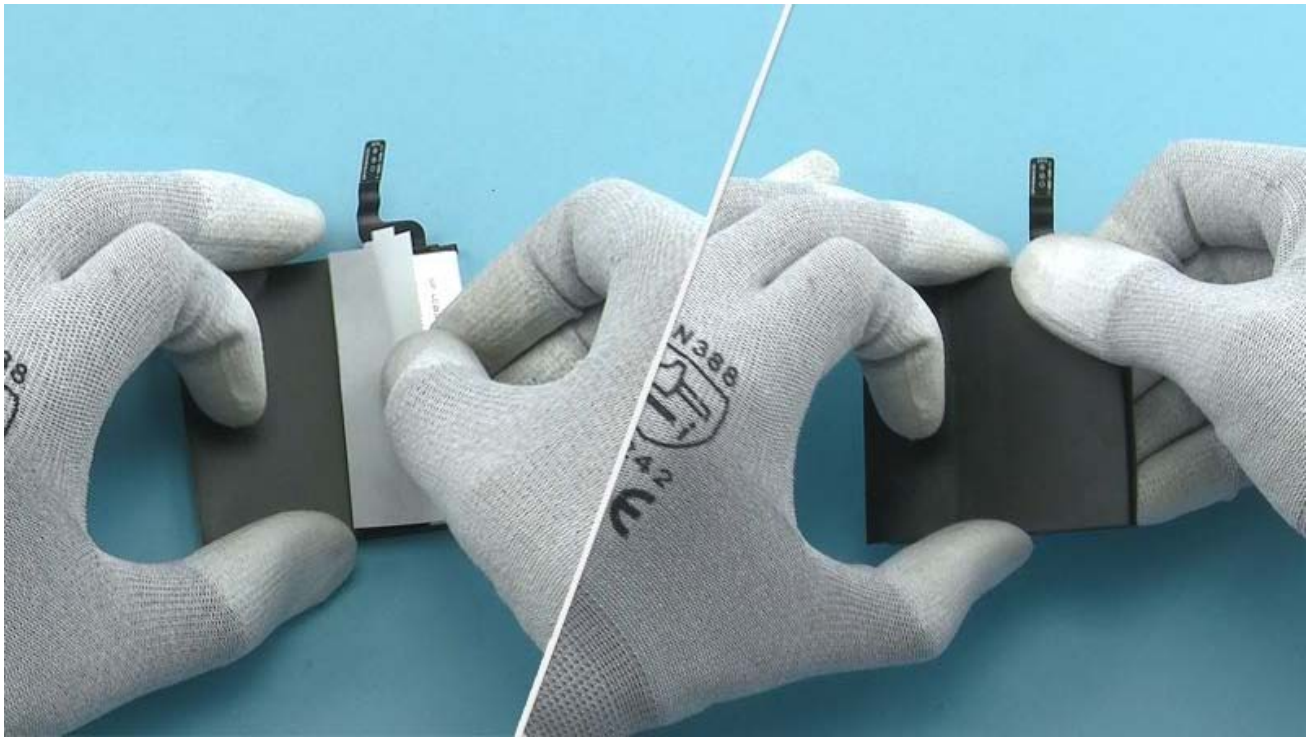
49) Make sure the flexes fold firmly to the A-COVER. Fold the flexes with the SS-93 if needed.



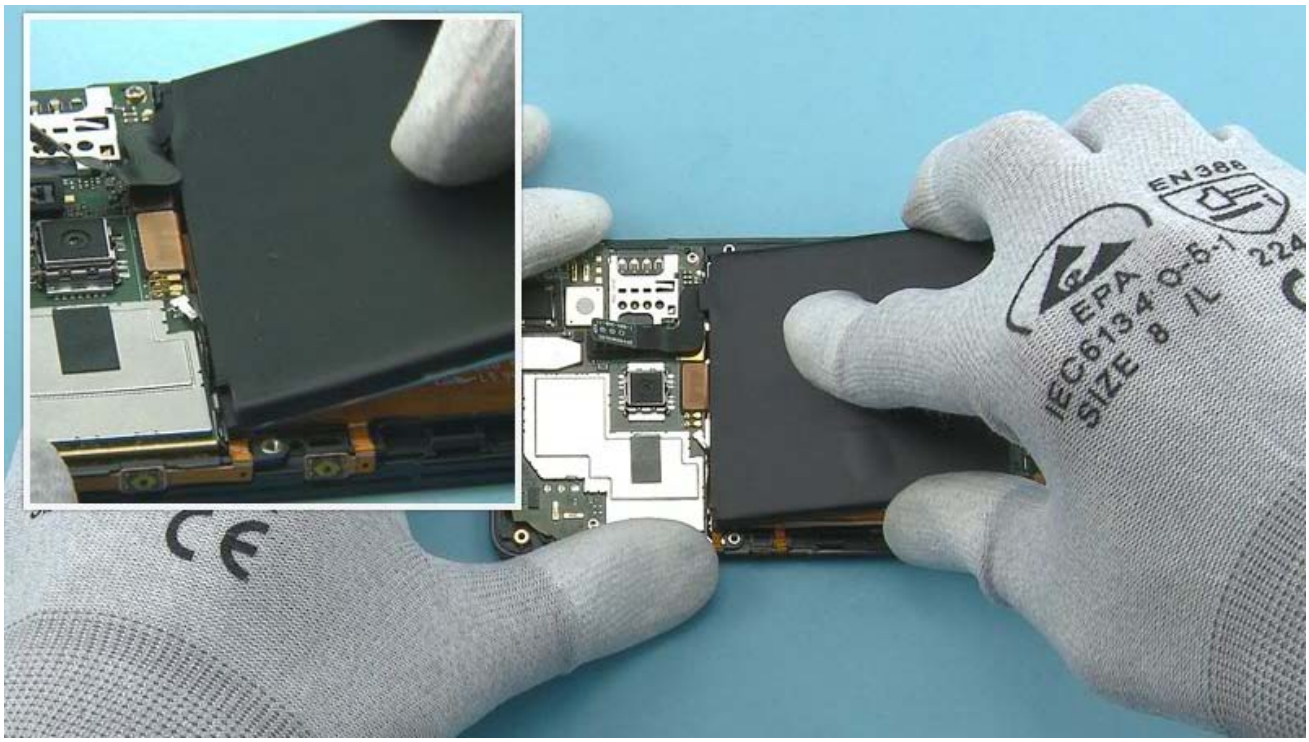
50) Place the DISPLAY connector protective film to its place.



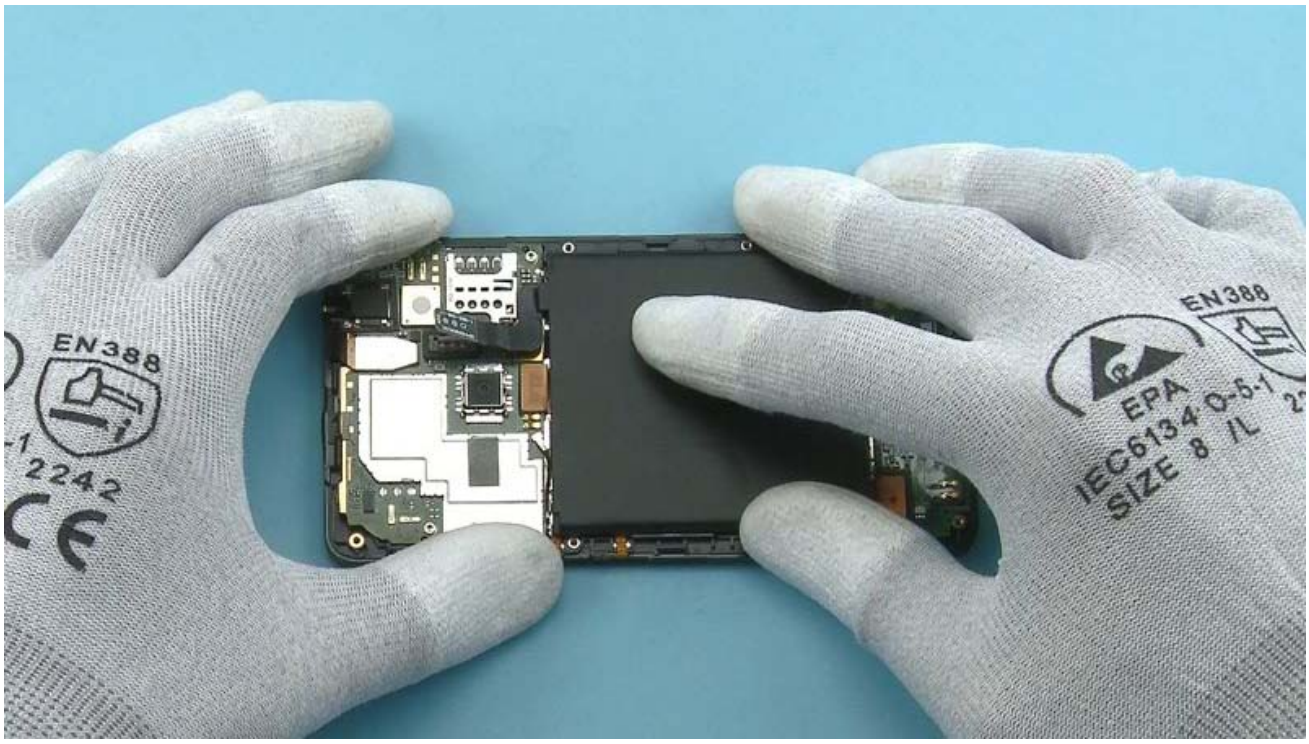
51) Peel off the middle part of the BATTERY MYLAR protective film. Place the BATTERY MYLAR on the BATTERY as shown.



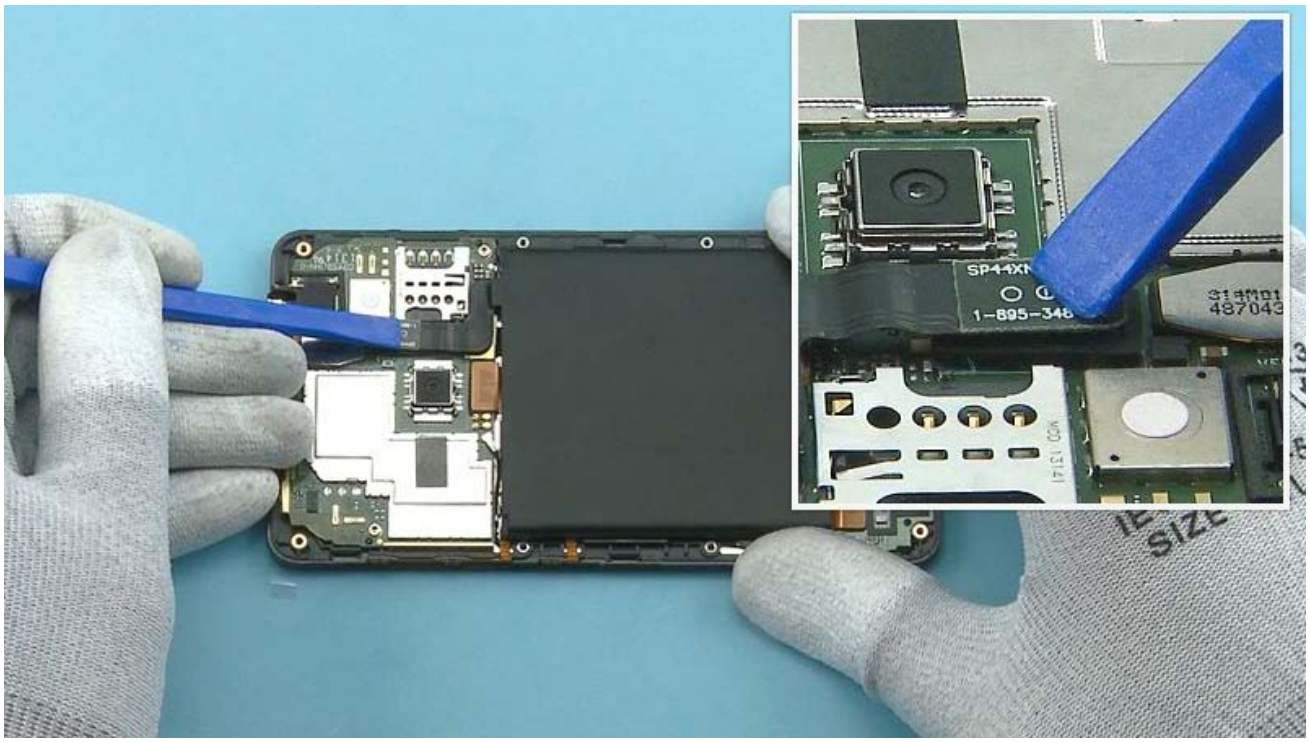
52) Peel off the sides of the protective film from the BATTERY MYLAR and press around firmly to get the BATTERY MYLAR properly attached.



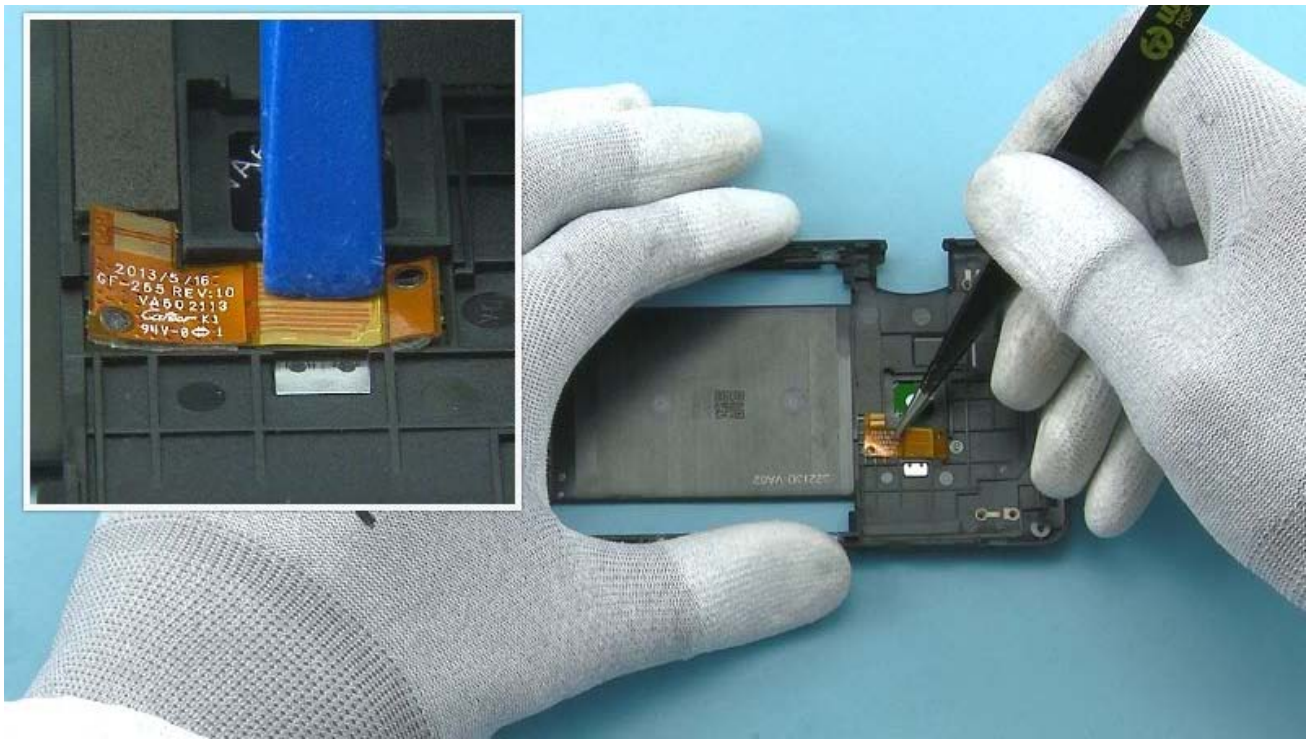
53) Place the BATTERY to the BATTERY compartment top end first.



54) Lower down the bottom end and press to activate the adhesive.

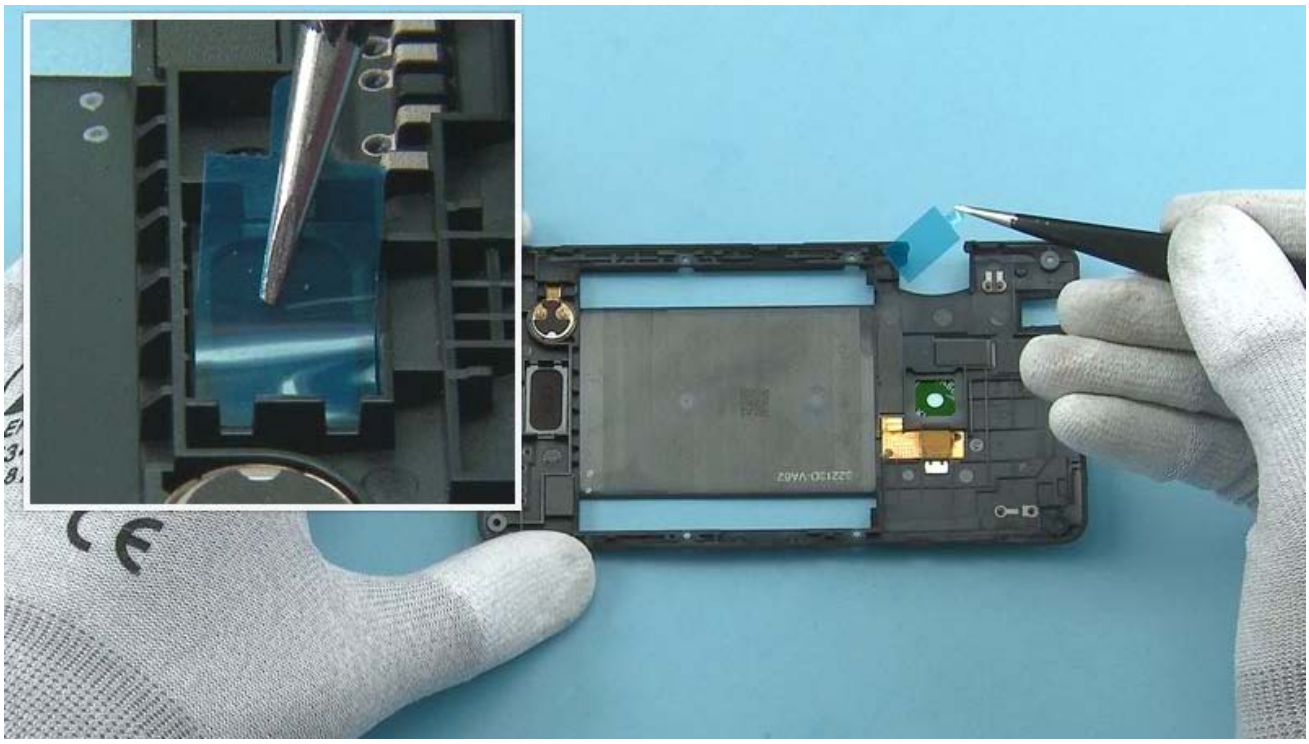


55) Connect the BATTERY connector.



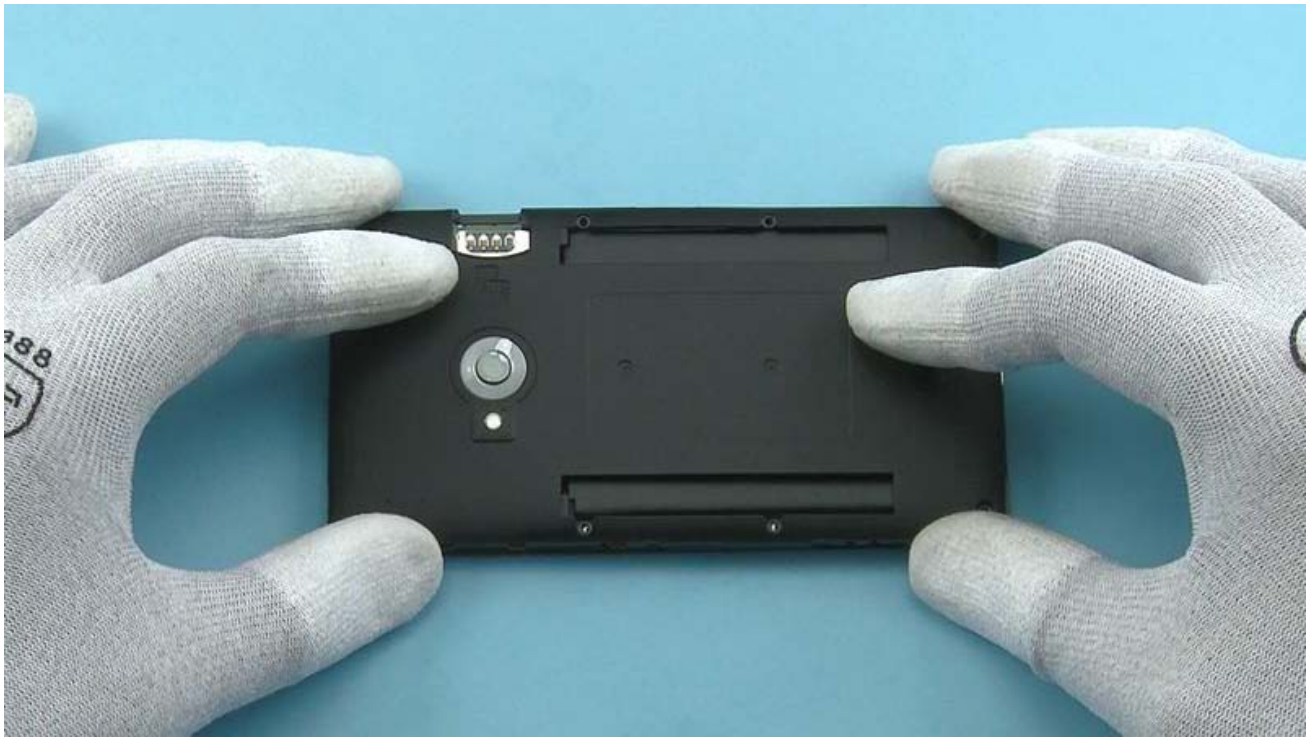
56) Place the LED FLASH FLEX to the D-COVER with tweezers and press it gently with the SS-93 to get it firmly in place.

57) Place the VIBRA to its place and press gently to activate the adhesive.

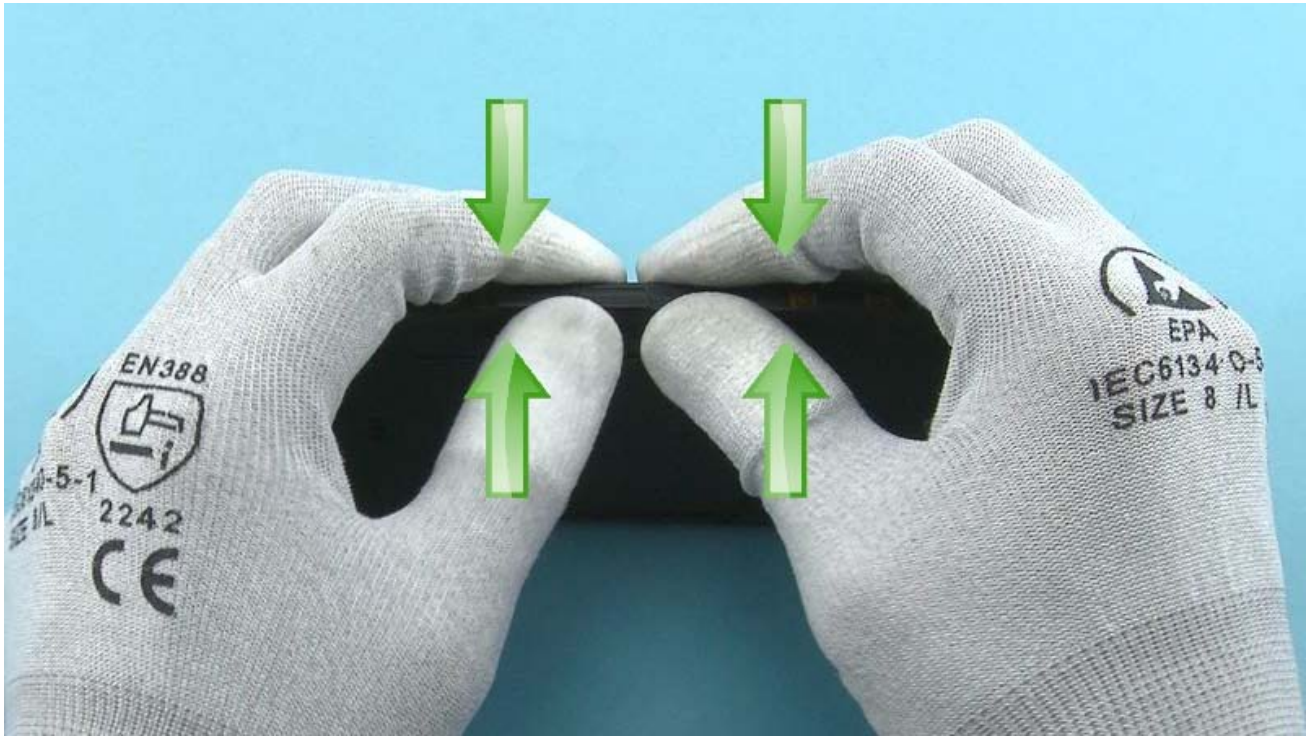


58) Peel off the SPEAKER ADHESIVE protective film.

59) Place the IHF SPEAKER to its place and press gently to activate the adhesive. Make sure the shown pins are facing the right way.



60) Place the D-COVER on the device.

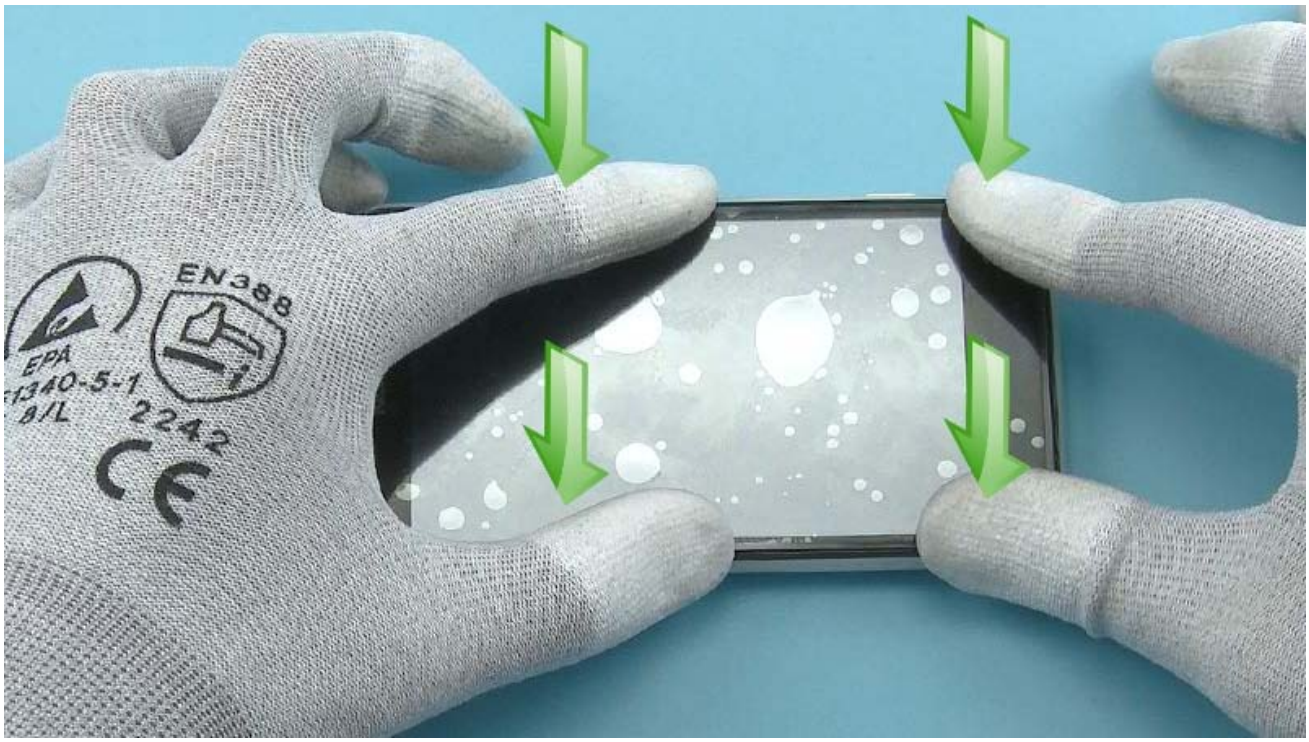


61) Press together all the sides of the device to get the D-COVER firmly attached.

62) Fasten the first four Torx+ size 5 screws in the order shown to the torque of 9.8 +/- 1 Ncm.

63) Then fasten the remaining four Torx+ size 5 screws in the order shown to the torque of 5 +/- 1 Ncm.

64) Assemble the BATTERY COVER top end first, then lower down the bottom end.



65) Press from the sides of the device to get the BATTERY COVER firmly attached.

66) The Nokia Lumia 625 assembly procedure is complete.

-END OF ASSEMBLY-

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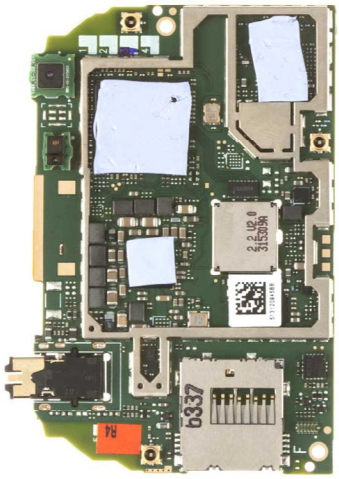
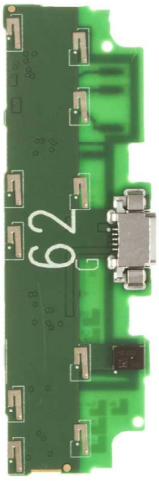
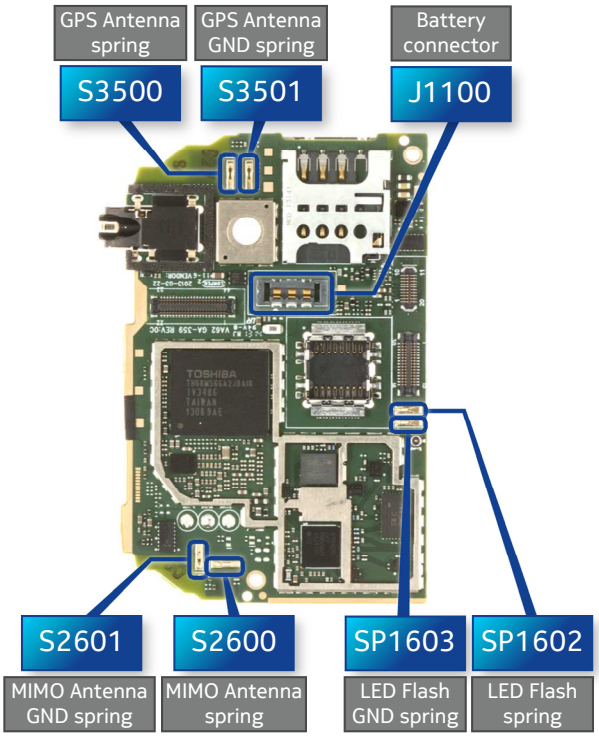
Solder components

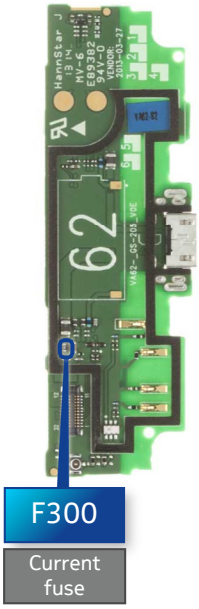
TOP





BOTTOM





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Service devices

 CA-101 Service cable	 AC-20 Fast USB charger (AC-21 for China, AC-10UC for Taiwan)	 SS-305 Camera removal tool
 SS-231/SS-298 RF connector disassembly/assembly tool	 Nokia Standard Toolkit (v2) For more information, refer to the Service Bulletin (SB-011) on Nokia Online. Supplier or manufacturer contacts for tool re-order can be found in “Recommended service equipment” document on Nokia Online.	

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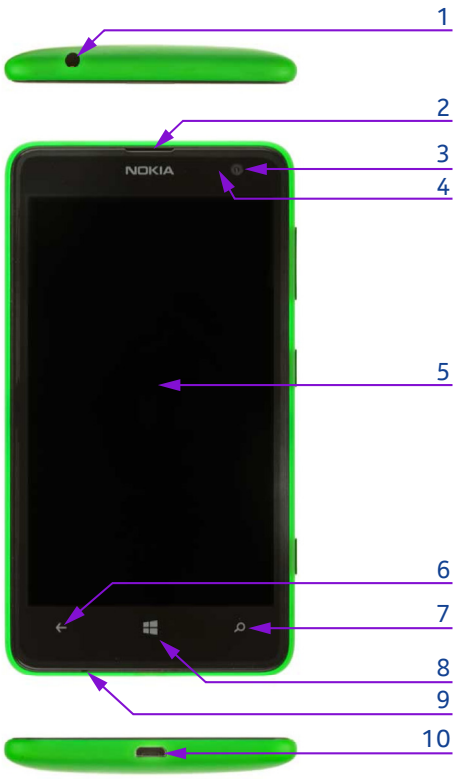
Product controls and interfaces



1 — 3.5 mm headset connector
2 — Earpiece
3 — Front camera
4 — Ambient light & proximity sensor
5 — Touch screen
6 — Back key
7 — Search key
8 — Start key
9 — Microphone
10 — Micro-USB connector
11 — Camera flash
12 — Camera lens
13 — Volume keys
14 — Power/lock key
15 — Camera key
16 — Loudspeaker
17 — MIMO antenna
18 — Cellular antenna
19 — Bluetooth, Wi-Fi & GPS antenna

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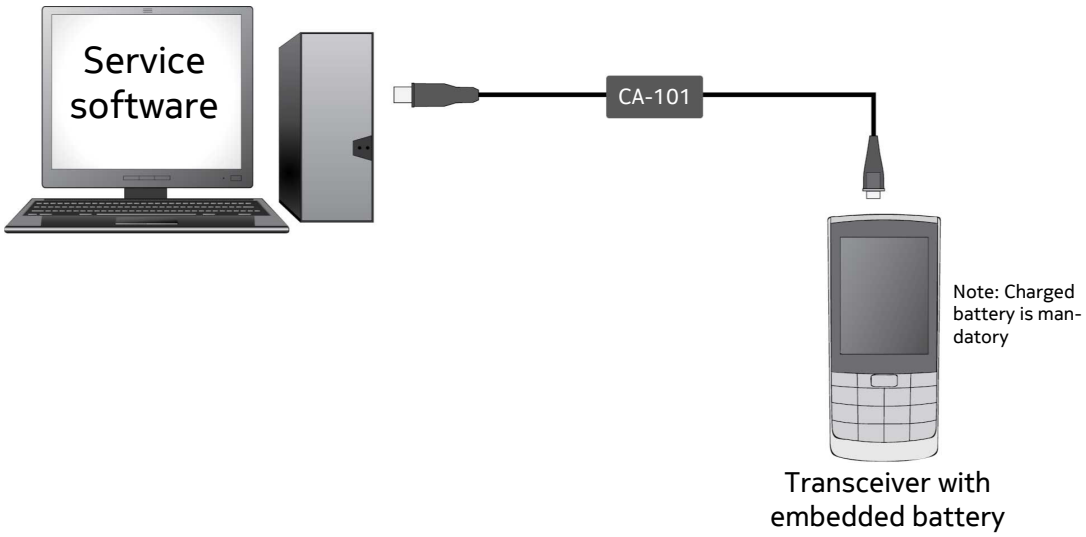
Flashing concept



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Hardware reset

If the phone hardware is jammed, you should first recommend that the consumer performs a hardware reset. The hardware reset does not reset the Windows Live ID or remove any consumer data. Because the consumer cannot remove the battery to reset the phone the phone has a special electronic circuit which cuts the phone power when the volume down and power keys are pressed for 10-15 seconds.

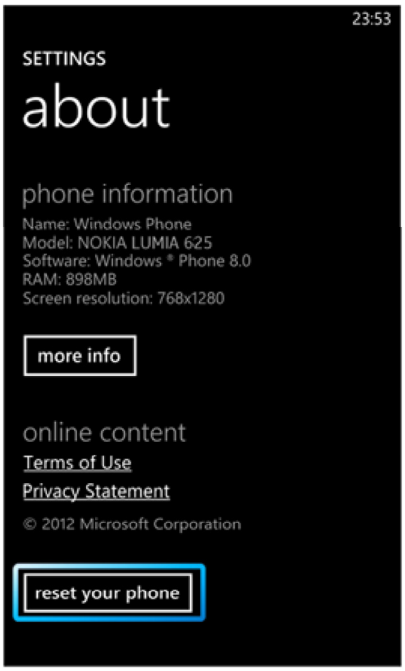
To perform the hardware reset, press and hold the Volume down and Power keys at the same time for about 10-15 seconds until a short vibration is felt. The phone should restart by itself.

Software / operating system (OS) reset

The software / operating system (OS) reset returns the phone to its out-of-the-box state. Note that this procedure erases all consumer data! Always first try to perform a hardware reset.

Option 1: About menu

- Use this option if the consumer knows the lock code
- This option warns the consumer about data loss!
- Tap **Settings > About > reset your phone**



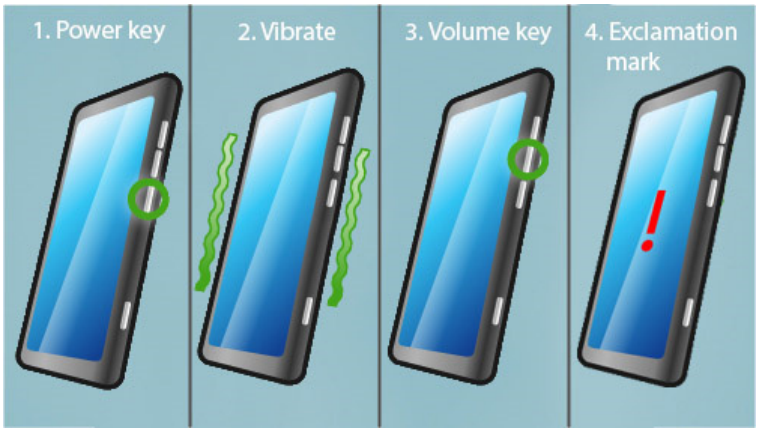
Option 2: Hardware key combination

- Use this option if the phone is locked and the consumer does not know the code
- Note: no warning about data loss!
- Do not advertise this feature to consumers!

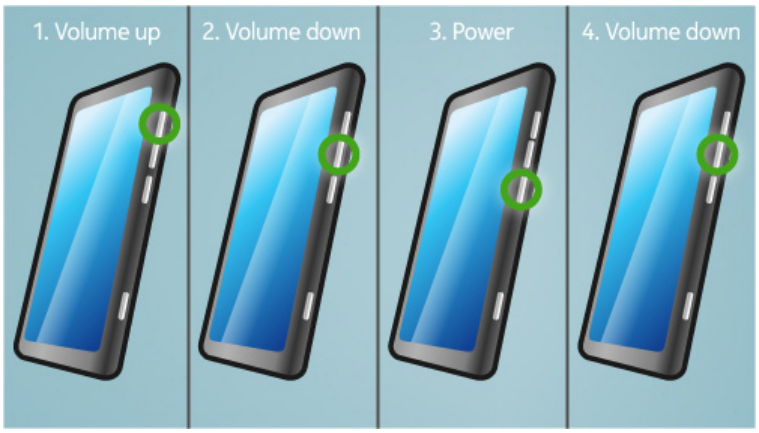
Follow next steps to perform OS reset with phone keys.

Step 1
Make sure the phone is turned Off.

1. Press and hold the power key
2. Phone vibrates (release the power key)
3. Press and hold the volume down key
4. Exclamation mark is shown on the screen (release the volume down key)



Step 2
Input the following key combination:
1. Volume up
2. Volume down
3. Power
4. Volume down



Step 3
The phone will reset and boot up automatically

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Version history

Version	Date	Description
1.0	24.07.2013	First published version

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